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EDMONTON

ANNUAL REPORT  
OF  
**THE MINES BRANCH**  
OF THE  
**Department of Lands and Mines**  
OF THE  
PROVINCE OF ALBERTA  
  
**1938**



EDMONTON:  
A. SHNITKA, KING'S PRINTER  
1939





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**THE MINES BRANCH**  
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EDMONTON, ALBERTA,  
March 7th, 1939.


TO THE HON. N. E. TANNER,  
*Minister of Lands and Mines.*

SIR:

I herewith submit the report of The Mines Branch for the year ending December 31, 1938.

Respectfully submitted,

A. A. MILLAR,  
*Chief Inspector of Mines.*



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## ANNUAL REPORT OF THE MINES BRANCH FOR THE YEAR ENDING DECEMBER 31st, 1938

(ANDREW A. MILLAR, *Chief Inspector*)

The output of coal produced from mines in the Province during the year was 5,230,025 tons, with a valuation of \$13,702,983.41, being a decrease of 321,657 tons from the output of 1937.

In addition to the above tonnage, there were 585 tons produced by farmers under permit, for their own use, which has not been included in the total output. There has been a considerable tonnage produced by bootleg methods of which we have no record.

Coal produced during 1937 by the Blackfoot Indians and not included in the 1937 output amounted to 9,788 tons with a value of \$22,781.40.

The disposition of coal during the year was as follows: 1,278,932 tons sold for consumption in Alberta, 1,737,499 tons sold for consumption in other Provinces of Canada; 32,507 tons sold for consumption in the United States; 1,871,852 tons sold to railroad companies for locomotive use; 39,302 tons used in making briquettes; 103,498 tons used making coke; 136,833 tons used under colliery boilers; 6,240 tons used by colliery railroads; 44,659 tons were put to stock and 36,173 tons were put to waste. The above tonnages include coal lifted from stock and waste heaps, which is not included in the total output.

The coal produced by farmers under permits is not included in the total output neither are the particulars as to men and shifts producing such coal included in any tables—this information being given in a separate table, this being done in order that there should be no confusion of the regular statistics.

The decrease in output may be accounted for by the extreme mild weather during the fall of the year and the reduced tonnage taken by the railroad companies. Compared with 1937, 47,122 tons less were sold in Alberta, 117,893 tons less to other Provinces and 156,537 tons less to the railroad companies.

There were 302 mines operating during the year, of which 21 were opened, 3 re-opened and 17 abandoned. In addition to the mines abandoned, there were 28 mines temporarily closed, leaving 259 mines in operation as at December 31st, 1938.

There were 316 persons examined during the year for certificates of competency as coal miners, of whom 263 were successful, making a total of 14,998 certificates issued to coal miners as at December 31st, 1938.

During the year the following changes took place in the staff of the Mines Branch: Mr. D. B. Young resigned as District Inspector of Mines to accept a position as manager with the Mohawk Bituminous Mines Limited, Bellevue, and was succeeded by Mr. E. H. Morgan, with headquarters at Blairmore, Alberta.

At the end of the year Mr. James A. Richards was superannuated, and Mr. A. B. Hunter was appointed to succeed Mr.

Richards, the vacancy resulting not having been filled at the end of the year.

Samples of mine air were taken at several mines during the year by the inspectors, the samples being forwarded to the Chemistry Branch of the Department of Mines, Ottawa, for analyses.

Extensive gas surveys have been made with the M.S.A. Model W-8 Methane Detector at various mines during the year, this instrument being effective in detecting low percentages of Methane.

Samples of coal have been collected and forwarded to the Industrial Research Department, University of Alberta, for analyses.

Samples of coal dust and dust taken from the roadways of various mines have also been submitted to the Research Department who have conducted tests on same to determine the degree of inflammability of the various coals.

All fatal and serious accidents have been investigated by the inspectors, who have also attended the inquests in their areas, this being in addition to the regular inspection of mines.

The total number of fatal accidents was 21, as compared with 20 in 1937.

There were 32 prosecutions instituted under The Coal-mines Regulation Act, of which 10 were officials, 1 electrician, 18 miners, 1 gripper and 2 no occupation.

There were 24,611,920 K.W. Hrs. of purchased electrical power used by mines in the Province during the year, the distribution of purchased power used by mines in the various areas being as follows: Big Valley, 8,320 K.W. Hrs. being purchased from the Union Power Company, Limited, of Drumheller, who also supplied 103,066 K.W. Hrs. to mines in Carbon and 3,629,055 K.W. Hrs. to mines in the Drumheller Area. The Calgary Power Company, Limited, supplied electrical power to mines in areas as follows: Camrose 7,850 K.W. Hrs., Gleichen 2,958 K.W. Hrs., Lethbridge 10,970,520 K.W. Hrs., Taber 10,950 K.W. Hrs., Nordegg 1,203,200 K.W. Hrs., Saunders 75,600 K.W. Hrs., and Edmonton 414,400 K.W. Hrs. The City of Edmonton also supplied 929,101 K.W. Hrs. to mines in the Edmonton Area. The East Kootenay Power Company, Limited, supplied 7,188,560 K.W. Hrs. to mines in the Crowsnest Area. The City of Medicine Hat supplied 68,340 K.W. Hrs. to mines in the Redcliff Area. Two mines in the Coalspur Area exchanged 64,400 K.W. Hrs. of electrical power, this being in addition to the power generated and used at various mines.

There were 9,259 men employed during the month of December, being a decrease of 97 men from the corresponding month in 1937.

Due to abnormal gas conditions and other attendant problems at the mines of the Cadomin Coal Company, Limited, and Luscar Coals Limited, both bituminous mines on the Mountain Park Branch of the Canadian National Railways, the Government specially appointed Mr. Thomas Graham, Consulting Mining Engineer of Comox, British Columbia, to examine and report on conditions at these mines and to make such recommendations as he thought would be helpful towards providing a solution to the difficulties encountered.



Mr. Graham made a number of recommendations and same have in each instance been carried out. At Cadomin, to drain off the gas, a drill hole was tried, same being 6 inches in diameter and 700 feet in depth to the seam.

From tests made this hole was found to be passing 656,640 cubic feet of air and gas per twenty-four hours, composed of:

276,250 cubic feet of methane,  
291,816 cubic feet of air,  
88,574 cubic feet of black damp.

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656,640 cubic feet.

A drill hole is to be drilled in each panel of work, and while this has not provided a full solution to the problem, much benefit seems to have been obtained from same.

Luscar Coals Limited installed a new Jeffrey Aerodyne ventilating fan of 150,000 cubic feet capacity, driven by a 150 H.P. motor at 1,135 rev. per minute, and made various changes underground to help improve conditions.

#### *Explosion at Hinton Collieries Limited, Hinton.*

On March 30th, 1938, at 4:15 p.m., a gas explosion took place at the mine operated by the Hinton Collieries Limited, near Hinton, at the face of No. 11 room in No. 5 right entry.

Five men were killed and five burned by the explosion. Gas had been allowed to accumulate at the face of No. 11 room, this room having a face 78 feet wide, same being cut with a Sullivan coal cutter of the permissible type.

The men had gone on shift at 4 p.m., and about fifteen minutes after they had got to the face an electric drill was started to drill a hole in the coal for a shot.

The motor of the drill was found afterwards to be burned out, and it evidently had been overloaded. It is believed that either sparking or the burning of the motor ignited gas and caused the explosion.

Edison mining electric cap lamps had been used in this mine for over two months and were being used at the time of the explosion.

The mine was required to be inspected by competent persons with a flame type safety lamp. The manager was given permission to install an electric drill of which the motor had to be enclosed.

The mine was not examined with a flame type safety lamp, and the motor of the drill used was not of the enclosed type.

The method of ventilating the room by stretching brattice up the centre of a 78-foot wide room was bad, to say the least, more so as none was carried across the face.

Neglect of these matters was the cause of the explosion.

#### *Use of Cardox for Blasting.*

During the year two mines obtained permission to use Cardox for blasting coal, viz., Standard Mine operated by the Lethbridge Collieries Limited, near Lethbridge, and the Regal Coal Company Limited at East Coulee. It is reported very good results have been

obtained with its use, by both companies, and practically all blasting in coal at both these mines is now carried on exclusively with Cardox.

The inspectors in both districts have kept in close touch with the use of the Cardox, and reported favourably upon it from the standpoint of its improving the size of the coal and its desirability from a safety standpoint, as there is practically no smoke and the fire hazard is practically nil.

The Cardox shells have been improved since the earlier trials were made in the Province, and there is less danger from their being projected from the drill holes than formerly was the case.

Air samples have been taken in places immediately after blasting with Cardox and sent to Ottawa for analyses.

The results show but a very small increase of the carbon dioxide content arising from the Cardox and practically none of carbon monoxide gas.

#### *Sheathed Explosives.*

Permissible sheathed explosives have been tried in some of the bituminous mines with the idea of ensuring greater safety, but the cost is considerably higher as compared with the ordinary permitted explosive. It was also found that the sheathing or "cooling element" reduces to some extent the efficiency of the explosive itself. To date very little progress has been made in the matter of using "sheathed explosives."

No serious strikes or labour disturbances have occurred during the year, but conciliation boards dealt with wage questions and agreements covering the steam coal-mines, presided over by Justice A. A. McGillivray; Lethbridge district by Justice H. W. Lunney, and in the Drumheller district by Mr. H. A. Dyde, of Edmonton.

Wage increases ranging from 5 to 10 per cent. were awarded and other adjustments made in the agreements.

In the other districts similar increases were arranged between the operators and the workmen.

At all the bituminous mines there is a tendency to reduce the number of shots fired and to limit the use of explosives wherever possible, which is desirable from a safety standpoint.

Notwithstanding the slackness in the coal trade, considerable plant improvements have been made at various mines in the Province, the following being some of them:

The International Mine is gradually replacing the structural work with fireproof material. A Vissac jig, two de-watering screens, a Vissac dryer and a 66,000 gallon slurry cone have recently been added to the equipment. Additional precautions have also been taken to safeguard against lightning entering the mine by the installation of a capacitor and other connecting equipment.

Considerable rock work with the object of improving haulage, ventilation and reducing maintenance costs is still being carried on, and the "A" level rock tunnel is now 3,000 feet inbye from the old slope.

At the McGillivray Mine a new conveyor belt 25 feet by 18 inches, driven by a 5 H.P. motor with a worm reduction gear, all



totally enclosed, for taking dry coal from the rotary dryer, was installed; also one 110 foot by 24 inch conveyor for taking the coal back to the dry cleaning plant, the driving unit being similar to the one already mentioned.

At the Greenhill Mine, Blairmore, a new conveyor belt for taking the raw coal direct from the screens at the north end of the tippie to the top of the Hummer Screen; a small elevator to take the re-screenings from No. 1 wet washer, a bin and elevator to take care of the surplus house coal, have been installed.

During the year 2,000 feet of roadway has been steel timbered. A new turbine pump was installed at No. 6 level pump house with a capacity of 500 gallons per minute, same directly connected to a 100 H.P. 550 volt 3-phase squirrel cage motor.

At Bellevue Mine considerable changes have been made towards improving the washing and drying of the coal.

The Mohawk Bituminous Mines, Limited, Bellevue, has installed a calcium chloride treating plant for spraying the commercial coal to allay the dust; also a 24-inch belt conveyor 120 feet long to handle coal now in demand for stoker use. Same has a capacity of 30 tons per hour and is driven by a 20 H.P. motor, delivering the coal into a storage bin.

At the Brazeau Collieries Limited, Nordegg, the coal is treated by dry and wet washing. The briquetting plant is now in operation, and has a capacity of 10 tons per hour.

Edison lamps of the "K" Model, replacing the older type, have been put in service at this mine.

At the Canmore Mines, Limited, Canmore, development is being carried on in a new seam which appears to underlie the Carey seam. Three hundred tons per day is being produced from same. The development is by means of a slope driven on the full pitch, and the opening is about two miles from the present tippie, the coal being hauled over a surface track by compressed air locomotives.

The No. 8 Mine of the Lethbridge Collieries Limited, Lethbridge, has installed a new 80-inch diameter fan of the Torpedo Screw type, made by Messrs. Thermotank Ltd., Goran, Scotland. The fan is delivering 80,000 cubic feet of air per minute against a water gauge of 2.5 inches, and is designed and installed for an ultimate duty of 150,000 cubic feet against a water gauge of 4.5 inches.

At the Federal Mine, Lethbridge, Edison Model "K" electric miners' lamps have been put in service, and the mine put on a safety lamp basis.

At the Cambrian Mine of the Western Gem & Jewel Collieries Limited, near Rosedale, a new tippie has been erected and a hotel and other townsite buildings provided. The whole of the output is being produced from mechanized longwall.

The Brilliant Mine, Drumheller, installed a Mancha Permissible storage battery locomotive with spare battery box and charging equipment. One Ottumwa box car loader for handling small sizes was installed.

The Alberta Block Coal Co. Limited, Drumheller, has installed an Ottumwa box car loader electrically driven by a 22 H.P. motor.

One main and tail hoist with two geared drums and 25 H.P. enclosed motor with approved starting and control equipment and Sullivan coal cutter have been put into service at the Monarch Coal Mining Company Limited, Drumheller.

The Murray Mine at East Coulee has installed a storage battery locomotive with spare set of batteries; one 17 K.W. D.C. generator charging panel, and other electrical equipment.

The Regal Mine, at East Coulee, installed one Aerovane fan and motor and two electric coal drills.

In addition to the rescue station at Drumheller, a sub-station has been built at the Regal Mine and equipped with first aid and mine rescue equipment.

The Mountain Park Coals Limited installed a Vissac tippie wet washer and de-watering plant. Extension of the power and boiler houses was also made, and two Babcock and Wilcox boilers, 350 H.P. each, and a 750 K.W. Allis Chalmer turbo-generator installed.

At the Cadomin Coal Co. Limited, Cadomin, an Ottumwa box car loader was installed, also an Everhart pneumatic shaft signalling system.

At the Coal Valley Mining Co. Limited, Coal Valley, three 250 H.P. Babcock and Wilcox boilers with chain grate stokers, bunker storage and induced fan draft, together with other equipment, have been installed.

The Sterling Collieries Company Limited installed a Jeffrey single roll crusher screw conveyor to take product from crusher to cleaning tables. Air tables enclosed and four cyclone type dust collectors installed.

One new building erected, 56 ft. by 32 ft., part for warehouse and the remainder as a shop in which to build Risdone stokers, and other screening plant was also installed.

Mine rescue stations were erected and equipped at Luscar, Cadomin, Hinton and other mines on the Coal Branch.

A number of mines in the Edmonton District installed ventilating fans.

In the Toronto office, Mr. E. S. Clarry continued the efforts to extend the sales of Alberta coals in the Ontario market.



## ANNUAL PRODUCTION OF COAL FROM MINES IN THE PROVINCE OF ALBERTA

The following table is taken from a report prepared by the Dominion Bureau of Statistics and published in "Coal Statistics for Canada" for the year 1937:

Calendar Year	Short Tons	Value
1886 .....	43,220	\$ 81,112
1887 .....	74,152	157,577
1888 .....	115,124	183,354
1889 .....	97,364	179,640
1890 .....	128,753	198,298
1891 .....	174,131	437,243
1892 .....	178,970	460,605
1893 .....	230,070	586,260
1894 .....	184,940	473,827
1895 .....	169,885	382,526
1896 .....	209,162	581,832
1897 .....	242,163	630,408
1898 .....	315,088	787,720
1899 .....	309,600	774,000
1900 .....	311,450	778,625
1901 .....	340,275	850,687
1902 .....	402,819	960,601
1903 .....	495,893	1,117,541
1904 .....	661,732	1,404,524
1905 .....	931,917	1,993,915
1906 .....	1,246,360	2,614,762
1907 .....	1,591,579	3,836,286
1908 .....	1,685,661	4,127,311
1909 .....	1,994,741	4,838,109
1910 .....	2,894,469	7,065,736
1911 .....	1,511,036	3,979,264
1912 .....	3,240,577	8,113,525
1913 .....	4,014,755	10,418,941
1914 .....	3,683,015	9,350,392
1915 .....	3,360,818	8,283,079
1916 .....	4,559,054	11,386,577
1917 .....	4,736,368	14,153,685
1918 .....	5,972,816	20,537,287
1919 .....	4,933,660	18,205,205
1920 .....	6,907,765	30,186,933
1921 .....	5,909,217	27,246,514
1922 .....	5,990,911	24,351,913
1923 .....	6,854,397	28,018,303
1924 .....	5,189,729	18,884,318
1925 .....	5,869,031	20,021,484
1926 .....	6,503,705	20,886,103
1927 .....	6,934,162	21,982,058
1928 .....	7,336,330	23,532,414
1929 .....	7,150,693	22,928,182
1930 .....	5,755,528	18,063,225
1931 .....	4,564,015	13,342,675
1932 .....	4,870,648	13,526,309
1933 .....	4,718,788	12,307,258
1934 .....	4,753,810	12,556,099
1935 .....	5,462,894	14,094,795
1936 .....	5,696,960	14,659,705
1937 .....	5,562,839	14,563,911
<b>Total.....</b>	<b>157,073,039</b>	<b>\$491,082,653</b>

NOTE: Production quantities and values prior to 1919 refer to sales and colliery consumption. From 1919 to 1937 the mine output figures are given.

## ANNUAL CONSUMPTION OF COAL IN CANADA, 1902-1937

The following revised table is taken from the report issued by the Dominion Bureau of Statistics for the year 1937:

Year	Canadian*		Imported coal "Entered for consumption"				Total	Per Capita
			From Great Britain		Total†			
	Short tons	%	Short tons	From U.S.A.	Short tons	%	Short tons	
1902	5,376,413	53.1	4,656,286	101,726	4,734,559	46.9	10,110,972	1,840
1903	6,005,735	47.3	6,520,931	184,593	6,678,450	52.7	12,684,185	2,245
1904	6,697,183	47.9	7,238,869	85,687	7,297,482	52.1	13,994,665	2,402
1905	7,032,661	49.4	7,233,738	68,500	7,215,446	50.6	14,249,107	2,374
1906	7,927,560	50.5	7,787,338	67,014	7,758,325	49.5	15,685,885	2,573
1907	8,617,352	45.0	10,588,697	54,325	10,549,503	55.0	19,166,855	2,990
1908	8,156,478	47.3	10,203,335	97,514	10,195,424	52.7	19,351,902	2,921
1909	8,913,376	47.9	9,805,253	67,671	9,711,826	52.1	18,625,202	2,739
1910	10,532,103	50.2	10,545,451	51,541	10,437,123	49.8	20,970,226	3,001
1911	9,822,749	40.5	14,510,129	48,963	14,424,949	59.5	24,247,698	3,364
1912	12,385,696	46.0	14,557,124	38,668	14,549,104	54.0	26,934,800	3,645
1913	13,450,158	42.6	18,145,769	37,825	18,132,387	57.4	31,582,545	4,138
1914	12,214,403	45.5	14,687,853	33,101	14,637,920	54.5	26,852,323	3,408
1915	11,500,480	48.1	12,450,796	15,098	12,406,212	51.9	23,906,692	2,995
1916	12,348,036	41.3	17,576,202	4,401	17,517,820	58.7	29,865,856	3,733
1917	12,313,603	37.2	20,848,009	9,451	20,810,132	62.8	33,123,735	4,110
1918	13,160,731	37.8	21,674,826	3,761	21,611,101	62.2	34,771,832	4,268
1919	11,611,168	40.3	17,292,913	344	17,236,269	59.7	28,847,437	3,471
1920	14,025,566	42.9	18,752,981	1,591	18,668,741	57.1	32,694,307	3,821
1921	12,715,734	41.1	18,300,081	765,980	18,258,387	58.9	30,974,121	3,525
1922	13,044,352	50.2	12,255,555	572,570	12,962,189	49.8	26,006,541	2,916
1923	15,070,962	41.8	20,417,239	317,112	20,967,971	58.2	36,038,933	4,000
1924	12,529,358	42.8	16,405,344	604,117	16,714,143	57.2	29,243,501	3,198
1925	12,125,290	42.6	15,744,957	287,299	16,365,555	52.3	28,457,261	3,062
1926	15,086,296	47.7	16,204,405	907,220	18,177,303	53.3	34,122,286	3,541
1927	15,944,983	46.7	17,266,434	682,755	16,515,582	50.0	33,003,389	3,356
1928	16,487,807	50.0	15,830,688	843,502	17,724,132	52.0	34,111,593	3,401
1929	16,387,461	48.0	16,780,452	1,144,861	18,412,039	56.7	32,464,710	3,180
1930	14,052,671	43.3	16,971,933	987,442	12,828,327	52.3	24,511,106	2,362
1931	11,682,779	47.7	11,793,798	1,727,716	11,654,492	51.0	22,867,193	2,177
1932	11,212,701	49.0	9,889,866	1,942,875	10,808,962	48.5	22,265,235	2,085
1933	11,456,273	51.5	8,865,935	1,981,116	10,581,168	48.9	25,887,574	2,392
1934	13,236,406	51.1	10,580,710	1,822,500	11,735,835	46.9	25,042,138	2,290
1935	13,306,303	53.1	9,618,518	1,498,656	12,719,515	46.7	27,228,167	2,469
1936	14,508,642	53.3	10,801,643	1,498,656	12,719,515	46.7	27,228,167	2,469
1937	15,172,729	51.5	12,574,574	1,211,052	14,268,585	48.5	29,441,314	2,648

\*The sum of Canadian coal-mine sales, colliery consumption, coal supplied to employees, and coal used in making coke, etc., less the tonnage of coal exported.

†Includes small tonnages from countries other than Great Britain and the United States. Deductions have been made to take account of foreign coal re-exported from Canada and bituminous coal ex-warehoused for ships' stores.



The following table shows the quantity of coke imported into Canada during the years 1936, 1937 and 1938, through ports in the Provinces, compiled from information from the Dominion Bureau of Statistics:

Ports in Province of	1936 Coke		1937 Coke		1938 Coke	
	Made from Petroleum	Made from Coal	Made from Petroleum	Made from Coal	Made from Petroleum	Made from Coal
Prince Edward Island .....	.....	7,224	.....	12,515	.....	7,193
Nova Scotia .....	.....	24	64	.....	224	.....
New Brunswick .....	.....	25,777	41,414	.....	49,990	19,215
Quebec .....	35,628	538,576	77,582	14,282	30,459	353,125
Central Ontario .....	52,406	22,543	.....	358,739	.....	23,451
Head of Lakes .....	.....	15,427	.....	17,351	.....	10,794
Manitoba .....	.....	.....	.....	13,109	.....	.....
Saskatchewan .....	.....	.....	.....	35	.....	.....
Alberta .....	.....	.....	.....	.....	.....	.....
British Columbia .....	568	3,277	443	1,702	545	904
Total .....	88,602	612,858	119,503	417,733	81,218	414,682
Imports of COKE into Canada, by Countries, 1936, 1937 and 1938.						
United States .....	88,602	579,893	119,503	404,445	81,218	406,763
Great Britain .....	.....	9,854	.....	3,949	.....	3,388
Germany .....	.....	22,549	.....	9,231	.....	4,531
Belgium .....	.....	562	.....	108	.....	.....
Total .....	88,602	612,858	119,503	417,733	81,218	414,682

NOTE: These figures show the total imports and not the tonnages entered for consumption.

Quantity of coal in tons entered for consumption for each year since 1919, through ports in the Provinces of Manitoba, Saskatchewan, Ontario, Alberta, British Columbia and Yukon.

## BITUMINOUS COAL

Year	Central Ontario	Port Arthur	Fort Frances	Fort William	Total Ontario	Manitoba	Saskatchewan	Alberta	British Columbia & Yukon	Total Canada
1919	7,641,682	483,991	59,253	1,063,793	9,248,719	62,746	1,406	1,131	6,700	12,010,490
1920	10,261,237	571,879	111,957	1,391,709	12,336,903	43,547	535	607	13,128	13,902,632
1921	8,605,872	659,763	127,956	1,316,155	10,709,746	76,833	2,127	1,820	17,081	13,536,252
1922	7,424,171	445,019	69,082	1,517,250	9,454,522	74,848	1,484	1,147	13,966	11,563,467
1923	11,621,859	619,037	95,439	1,751,667	14,068,002	112,134	1,607	1,110	17,919	17,517,108
1924	8,763,676	403,386	70,239	1,500,525	10,737,848	143,607	2,422	1,209	25,049	12,619,082
1925	9,100,462	286,984	81,173	497,264	9,884,710	147,758	1,732	1,175	40,286	13,015,323
1926	10,531,095	199,908	83,182	965,105	11,696,108	149,374	1,887	1,515	32,992	13,802,242
1927	11,572,678	221,618	90,864	1,273,691	13,158,927	142,860	2,141	1,324	22,648	15,178,640
1928	10,539,408	194,714	103,594	1,481,228	12,318,927	147,960	2,536	1,360	18,682	13,966,183
1929	11,232,027	143,889	100,141	1,591,656	13,067,713	38,801	2,477	1,327	18,526	14,585,275
1930	10,421,748	165,499	70,403	1,297,939	11,955,589	24,898	1,816	1,351	18,886	13,345,308
1931	8,553,736	86,810	65,738	609,279	9,315,563	7,041	1,535	912	2,308	10,347,280
1932	6,867,307	62,019	48,915	691,831	7,670,072	12,298	1,459	830	3,582	8,532,318
1933	7,038,386	74,934	30,108	482,206	7,625,634	13,213	1,327	998	26,077	8,027,656
1934*	8,472,143	126,671	37,085	602,510	9,238,409	12,103	1,255	1,302	2,301	10,268,945
1935*	6,033	.....	53,145	591,810	9,361,758	9,918	952	1,136	3,722 (a)	9,549,457 (b)
1936*	8,448,795	156,229	67,784	688,950	9,361,758	14,101	847	1,205	3,524 (d)	10,200,253 (e)
1937*	10,154,682	128,595	69,598	820,160	11,173,035	12,079	743	1,293	2,540 (g)	12,449,385 (h)
1938*	8,159,030	113,746	56,806	698,371	9,027,953	9,061	783	1,116	2,701 (k)	9,744,652 (l)

## ANTHRACITE COAL

Year	Central Ontario	Port Arthur	Fort Frances	Fort William	Total Ontario	Manitoba	Saskatchewan	Alberta	British Columbia & Yukon	Total Canada
1919	2,977,913	119,234	559	346,442	3,444,148	12,906	.....	66	136	4,972,283
1920	2,943,134	69,206	2,648	226,476	3,221,464	17,509	206	517	75	4,912,964
1921	2,809,189	62,782	138	198,108	3,070,217	33,473	254	66	251	4,567,370
1922	1,586,924	21,507	12	36,018	1,644,461	14,715	55,856	.....	1,261	2,693,957
1923	3,061,779	28,229	429	54,329	3,144,766	55,856	2,291	.....	174	5,167,881
1924	2,599,568	4,775	237	84,513	2,689,093	34,222	1,720	.....	687	4,183,594
1925	2,203,281	.....	170	50,731	2,254,049	34,396	702	30	246	3,798,744
1926	2,458,674	.....	56	60,810	2,519,494	17,990	464	.....	5,202	4,242,932
1927	2,123,515	.....	51	79,283	2,202,849	15,855	484	.....	3,812	4,063,619
1928	2,179,022	.....	42	57,494	2,236,558	10,130	579	.....	2,241	3,737,333
1929	2,246,063	352	303	52,369	2,299,087	9,180	365	.....	597	4,019,917
1930	2,080,457	.....	224	45,241	2,125,922	8,323	367	.....	1,123	4,256,090
1931	1,615,643	.....	.....	18,302	1,633,945	3,695	.....	.....	33	3,178,141
1932	1,250,755	.....	3	12,677	1,263,435	3,800	.....	3	702	3,138,157
1933	1,129,041	.....	8	8,742	1,137,791	5,669	57	75	3,657	3,035,613
1934*	1,374,881	.....	3,030	7,934	1,385,845	6,086	.....	.....	282	3,537,309
1935*	1,370,119	.....	19	9,455	1,379,593	5,852	49	.....	1,600	3,451,318 (c)
1936*	1,436,613	.....	135	16,350	1,453,098	5,884	58	.....	1,151	3,530,040 (f)
1937*	1,608,653	.....	8	21,052	1,629,713	5,639	61	34	1,611	3,572,268 (i)
1938*	1,700,047	.....	69	16,050	1,716,166	4,674	39	.....	280	3,716,447 (m)

\*These figures show the total imports and not the tonnages entered for consumption.



- (a) Includes imports into the Yukon Territory of 10 tons in July and 10 tons in October.
- (b) Consists of 9,168,428 tons imported from the United States, 380,645 tons imported from Great Britain, 43 tons imported from Alaska, 285 tons imported from Norway, 55 tons imported from Estonia, and 1 ton imported from Poland.
- (c) Consists of 1,670,085 tons imported from the United States, 1,454,521 tons imported from Great Britain, 205,045 tons imported from Germany, 67,220 tons imported from Belgium, and 54,447 tons imported from French Indo-China.
- (d) Includes imports into the Yukon Territory of 4 tons in April, 3 tons in May, 6 tons in June, 45 tons in July and 2 tons in October.
- (e) Consists of 10,042,127 tons imported from the United States, 149,905 tons imported from Great Britain, 9,421 tons imported from Germany, 361 tons imported from Norway, 124 tons imported from Denmark, 45 tons imported from Sweden, 35 tons imported from the Netherlands, 286 tons imported from Newfoundland, and 134 tons imported from Estonia.
- (f) Consists of 1,685,848 tons imported from the United States, 1,331,279 tons imported from Great Britain, 359,994 tons imported from Germany, 33,543 tons imported from Belgium, 122,572 tons imported from French Indo-China, 16,231 tons imported from the Netherlands, and 1,120 tons imported from China.
- (g) Includes imports into the Yukon Territory of 4 tons in March, 6 tons in May, 6 tons in June, 45 tons in July and 2 tons in October.
- (h) Consists of 12,333,378 tons imported from the United States, 56,073 tons imported from Great Britain, 54,061 tons imported from Germany, 113 tons imported from Norway, and 200 tons imported from Estonia.
- (i) Consists of 2,003,317 tons imported from the United States, 1,134,855 tons imported from Great Britain, 258,257 tons imported from Germany, 8,131 tons imported from Belgium, 154,495 tons imported from Russia, and 78 tons imported from Morocco.
- (k) Includes imports into the Yukon Territory of 8 tons in March, 10 tons in July, and 8 tons in October.
- (l) Consists of 9,644,020 tons from the United States, 65,957 tons from Great Britain, 34,258 tons from Germany, and 417 tons from Japan.
- (m) Consists of 1,973,610 tons from the United States, 1,199,131 tons from Great Britain, 407,031 tons from Germany, 34,182 tons from Belgium, 14,952 tons from Russia, 19,645 tons from Morocco, 37, 594 tons from the Netherlands, and 30,302 tons from French Indo-China.

Imports of Coal into Ontario, Manitoba, Saskatchewan, Alberta, British Columbia, Yukon and Canada, by months during 1938 (short tons) :

BITUMINOUS COAL

Month	Central Ontario	Port Arthur	Fort Frances	Fort William	Total Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon	Total Sask., Alta., B.C. and Yukon	Total Canada
January	315,615	.....	4,341	.....	319,956	889	33	41	583	.....	1,546	340,272
February	241,220	.....	2,853	.....	244,073	742	40	63	299	.....	1,144	268,141
March	264,785	.....	4,286	1,721	270,792	1,047	99	110	94	8	1,358	307,937
April	348,772	.....	2,432	26,769	377,973	584	73	68	75	.....	800	399,387
May	743,848	6,741	5,377	95,712	851,678	570	33	181	139	.....	923	930,247
June	950,432	47,524	6,092	58,663	1,062,711	1,323	33	159	132	.....	1,647	1,156,744
July	867,711	47,971	3,325	61,930	980,937	398	138	109	136	10	791	1,062,508
August	928,950	1,394	3,709	106,247	1,040,300	320	196	101	260	.....	877	1,130,462
September	929,003	1,394	7,290	116,909	1,053,270	685	3	108	127	.....	923	1,148,285
October	926,407	6	5,820	88,935	1,021,168	835	30	62	130	8	1,065	1,080,706
November	1,082,918	10,042	7,147	100,801	1,200,908	1,111	105	.....	216	.....	1,432	1,281,361
December	559,369	.....	4,134	40,684	604,187	557	.....	114	484	.....	1,155	638,602
Total	8,159,030	113,746	56,806	698,371	9,027,953	9,061	783	1,116	2,675	26	13,661	9,744,652*

\*Consists of 9,644,020 tons from the United States, 65,957 tons from Great Britain, 34,258 tons from Germany, and 417 tons from Japan.

ANTHRACITE COAL

Month	Central Ontario	Port Arthur	Fort Frances	Fort William	Total Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon	Total Sask., Alta., B.C. and Yukon	Total Canada
January	152,471	.....	1	.....	152,472	590	.....	.....	30	.....	620	193,200
February	132,696	.....	.....	.....	132,696	475	.....	.....	.....	.....	475	172,611
March	136,188	.....	.....	.....	136,188	502	.....	.....	.....	.....	502	189,420
April	96,613	.....	.....	.....	96,613	292	39	.....	.....	.....	331	145,818
May	147,658	.....	.....	.....	147,658	348	.....	.....	.....	.....	348	411,974
June	226,523	.....	.....	4,138	230,661	256	.....	.....	5	.....	261	460,939
July	117,495	.....	.....	6,166	123,661	283	.....	.....	.....	.....	283	417,449
August	109,786	.....	.....	.....	109,786	398	.....	.....	.....	.....	398	333,444
September	131,337	.....	.....	.....	131,337	339	.....	.....	.....	.....	339	410,924
October	163,980	.....	41	5,746	169,767	301	.....	.....	.....	.....	301	376,420
November	158,869	.....	.....	.....	158,869	389	.....	.....	.....	.....	389	395,535
December	126,431	.....	27	.....	126,458	501	.....	.....	245	.....	746	208,713
Total	1,700,047	.....	69	16,050	1,716,166	4,674	39	.....	280	.....	4,993	3,716,447*

\*Consists of 1,973,610 tons from the United States, 1,199,131 tons from Great Britain, 407,031 tons from Germany, 34,182 tons from Belgium, 14,952 tons from Russia, 19, 645 tons from Morocco, 37,594 tons from the Netherlands, and 30,302 tons from French Indo-China.





## MINERAL PRODUCTION OF ALBERTA, 1937 AND 1938

Prepared in the Mining, Metallurgical and Chemical Branch, Ottawa, Canada.

	1937		1938(a)	
	Quantity	Value	Quantity	Value
*Gold, fine ounces .....	46	\$ 1,610	305	\$ 6,305
†Exchange equalization .....				4,423
Silver, fine ounces .....	4	2	23	10
Coal, short tons .....	5,562,839	14,563,911	5,227,051	13,686,003
Natural Gas, M. cubic feet .....	20,955,506	4,766,437	21,800,000	4,948,600
Petroleum, barrels .....	2,749,085	4,961,002	6,742,039	11,327,000
Salt, short tons .....			4,045	46,035
Sodium sulphate, short tons .....	80	480	64	448
Bituminous sands, short tons .....	35	142		
Cement, barrels .....	267,106	531,541	304,373	611,790
Lime, short tons .....	10,651	93,478	12,053	107,012
Sand and Gravel, short tons .....	711,966	312,687	803,907	524,240
Stone, short tons .....	13,225	27,189	15,278	34,916
Clay products .....		338,638		357,517
Total .....		\$25,597,117		\$31,654,299

(a) Subject to revision.

\*Gold valued at the standard rate of \$20.671834 per ounce.

†Difference between the standard rate and the average value of gold during the year.

Particulars with reference to the coal-mining industry in the Province of Alberta during the year ending December 31st, 1938:

## SUMMARY OF STATISTICS

Tonnage stripped by farmers under domestic permits .....	585
Number of short tons of coal produced .....	5,230,025
Number of short tons of briquettes produced .....	39,239
Number of short tons of coke produced .....	68,692
Number of short tons of shale produced .....	19,929
Number of coal-mines in operation during the year .....	302
Number of shale pits in operation during the year .....	4
Number of mines opened during the year .....	21
Number of mines re-opened during the year .....	3
Number of mines closed during the year .....	29
Number of mines abandoned during the year .....	17
Number of mines in operation at December 31st, 1938 .....	259
135 mines or 44.70% of the total operating produced 1.06% of the output.	
78 mines or 25.83% of the total operating produced 2.94% of the output.	
15 mines or 4.96% of the total operating produced 2.04% of the output.	
43 mines or 14.24% of the total operating produced 19.57% of the output.	
16 mines or 5.30% of the total operating produced 20.71% of the output.	
5 mines or 1.66% of the total operating produced 11.25% of the output.	
5 mines or 1.66% of the total operating produced 16.42% of the output.	
4 mines or 1.32% of the total operating produced 19.42% of the output.	
1 mine or .33% of the total operating produced 6.59% of the output.	
Average number of persons employed below ground .....	5,427
Average number of persons employed above ground .....	1,984
Number of separate accidents causing loss of life .....	16
Number of deaths caused by accidents above ground .....	1
Number of deaths caused by accidents below ground .....	20
Number of serious accidents above ground .....	9
Number of serious accidents below ground .....	63
Number of slight accidents above ground .....	21
Number of slight accidents below ground .....	114
Total purchased electrical power (kilowatt hours) .....	24,611,920
Number of prosecutions instituted .....	32
Number of Provisional Certificates (overman) issued in 1938 .....	158
Number of Certificates of Competency as Coal-miners issued in 1938 .....	263
Number of Third Class Certificates issued in 1938 .....	63
Number of Second Class Certificates issued in 1938 .....	12
Number of First Class Certificates issued in 1938 .....	2
Number of Mine Surveyors' Certificates issued in 1938 .....	1
Total number of Third Class Certificates issued to December 31st, 1938 .....	1,438
Total number of Second Class Certificates issued to December 31st, 1938 .....	465
Total number of First Class Certificates issued to December 31st, 1938 .....	247
Total number of Mine Surveyors' Certificates issued to December 31st, 1938 .....	193
Total number of Interchange First Class Certificates issued to December 31st, 1938 .....	5
Total number of Certificates of Competency as Coal-miners issued to December 31st, 1938 .....	14,998



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In the following tables the short ton of 2,000 lbs. is used in all cases.

Year	Output in tons for N.W.T. (Alta. & Sask.)	Output in tons for Alberta
1901	346,649	.....
1902	510,674	.....
1903	622,939	.....
1904	782,931	.....
1905	.....	811,228
1906	.....	1,385,000
1907	.....	1,834,745
1908	.....	1,845,000
1909	.....	2,174,329
1910	.....	3,036,757
1911	.....	1,694,564
1912	.....	3,446,349
1913	.....	4,306,346
1914	.....	3,821,739
1915	.....	3,434,891
1916	.....	4,638,604
1917	.....	4,863,414
1918	.....	6,148,620
1919	.....	5,022,412
1920	.....	6,908,923
1921	.....	5,937,195
1922	.....	5,976,432
1923	.....	6,866,923
1924	.....	5,203,713
1925	.....	5,883,394
1926	.....	6,508,908
1927	.....	6,936,780
1928	.....	7,334,179
1929	.....	7,147,250
1930	.....	5,755,911
1931	.....	4,564,290
1932	.....	4,870,030
1933	.....	4,714,784
1934	.....	4,748,848
1935	.....	5,462,973
1936	.....	5,696,375
1937	.....	5,551,682
1938	.....	5,230,025

PARTICULARS OF WORK DONE IN SHALE MINES IN THE PROVINCE  
DURING 1938

Output of shale (in tons) used for making bricks	19,929
Number of shifts worked	8,983
Average number of men employed	80
Explosives used (pounds) 40% Dynamite	2,325
Number of shots fired, using fuse	1,213
Total number of bricks made	7,609,314
Total number of bricks put to stock	317,006
Total number of bricks lifted from stock	146,537
Bricks sold for use in	
Alberta	3,858,200
British Columbia	1,088,870
Saskatchewan	1,244,455
Manitoba	966,820
Ontario	267,500
N.W. Territories	15,000
Total	7,440,845

Hollow tile made (tons)	1,640
Hollow tile put to stock (tons)	46
Hollow tile sold for use in	
Alberta	863
British Columbia	313
Saskatchewan	26
Manitoba	372
Ontario	20
Total	1,594

PARTICULARS OF WORK DONE BY FARMERS STRIPPING COAL UNDER  
DOMESTIC PERMIT

Tonnage	585
Number of days worked during the year	109
Number of men employed during the year	53
Total number of shifts worked	217
Total number of permits issued	17

The above coal was stripped for domestic use only and not for sale.

## CLASSIFICATION OF OUTPUT DURING THE YEARS 1901 TO 1938 INCLUSIVE

Year	Domestic	Domestic and Bituminous	Sub-bituminous	Bituminous	Anthracite	Coal used in Coke production	Briquettes	Coke
1901*	.....	331,907	.....	.....	14,742	.....	.....	.....
1902*	.....	494,087	.....	.....	16,587	.....	.....	.....
1903*	.....	617,754	.....	.....	5,185	.....	.....	.....
1904*	.....	759,568	.....	.....	23,363	.....	.....	.....
1905*	.....	972,686	.....	.....	43,653	.....	.....	.....
1906	602,780	.....	.....	546,623	235,597	71,292	.....	46,640
1907	639,325	.....	.....	939,295	256,115	102,930	.....	69,844
1908	584,334	.....	.....	1,001,371	239,095	12,887	49,585	73,782
1909	763,673	.....	.....	1,197,399	213,257	128,397	36,261	75,657
1910	878,011	.....	.....	1,896,961	261,785	148,104	89,785	87,812
1911	964,700	.....	.....	649,745	80,119	196,249	108,996	121,578
1912	1,341,389	.....	.....	1,926,371	178,589	61,591	48,200	35,984
1913	1,763,225	.....	.....	2,374,401	168,720	170,818	90,000	105,684
1914	1,697,401	.....	.....	1,953,367	170,971	104,012	130,861	65,167
1915	1,682,922	.....	.....	1,626,237	125,732	44,249	109,082	29,058
1916	2,172,801	.....	.....	2,335,259	140,544	38,878	83,180	23,826
1917	2,537,829	.....	.....	2,206,868	118,717	67,105	107,959	41,950
1918	3,035,061	.....	.....	2,982,334	131,225	51,905	93,818	31,630
1919	2,611,009	.....	.....	2,325,787	85,616	53,462	100,470	32,858
1920	3,359,309	.....	.....	3,419,021	130,594	.....	70,033	.....
1921	2,943,141	.....	.....	2,897,380	96,674	.....	101,693	.....
1922	3,086,669	.....	635,073	2,214,273	40,417	.....	62,466	.....
1923	3,161,741	.....	459,869	3,245,313	107	.....	33,663	.....
1924	3,096,660	.....	585,765	1,521,288	.....	.....	39,638	.....
1925	3,156,353	.....	581,835	2,145,200	.....	.....	791	.....
1926	3,160,029	.....	490,371	2,858,508	.....	.....	11,381	.....
1927	3,357,171	.....	595,190	2,984,419	.....	287	20,649	173
1928	3,378,200	.....	740,498	3,215,481	.....	.....	24,768	.....
1929	3,385,749	.....	668,108	3,093,393	.....	.....	28,167	.....
1930	2,874,090	.....	603,331	2,278,490	.....	.....	24,111	.....
1931	2,246,544	.....	471,389	1,846,357	.....	.....	15,102	.....
1932	2,576,831	.....	559,479	1,733,720	.....	4,591	13,582	2,183
1933	2,434,047	.....	554,141	1,726,596	.....	75,275	14,935	49,279
1934	2,295,566	.....	537,542	1,915,740	.....	91,745	15,906	59,703
1935	2,647,912	.....	566,436	2,248,625	.....	98,233	18,812	63,428
1936	2,841,231	.....	566,486	2,299,658	.....	97,353	21,015	65,239
1937	2,631,150	.....	506,529	2,414,093	.....	99,537	27,044	65,937
1938	2,453,263	.....	488,912	2,287,850	.....	103,498	39,239	68,692

\*Includes output from Alberta and Saskatchewan. Previous to 1922 sub-bituminous was included in bituminous coal.

During the year 1909 a strike affecting all the larger mines in the province lasted for a period of three months.  
 During the year 1911 a strike affecting all the larger mines in the province, lasted for a period of eight months.  
 During the year 1917 a strike affecting all the larger mines in the province, lasted for a period of three months.  
 During the year 1919 a strike affecting all the larger mines in the province, lasted for a period of three months.  
 During the year 1922 a strike affecting all the larger mines in the province, lasted for a period of five months.  
 During the year 1924 a strike affecting all the larger mines in the province, lasted for a period of six and one-half months.





How total output of DOMESTIC COAL from the Province was disposed of by Areas during 1938:

	Sold for Consumption in					Total Sales	Used under Colliery Boilers	Used by R.R.	Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total output for year including put to stock and waste
	Alberta	British Columbia	Saskatchewan	Manitoba	Ontario	United States							
Ardley .....	17,578	.....	3,060	.....	.....	.....	795	.....	20	53	86	.....	21,420
Big Valley .....	2,042	.....	.....	.....	.....	.....	2,042	.....	.....	27	.....	.....	2,069
Brooks .....	8,786	.....	774	.....	.....	.....	105	.....	.....	.....	.....	.....	9,665
Camrose .....	47,684	.....	3,424	576	48	.....	905	.....	1,170	670	1,070	745	52,662
Carbon .....	64,900	1,080	20,489	5,063	437	326	306	.....	528	500	722	57	92,846
Castor .....	37,509	.....	.....	.....	22	.....	106	.....	177	1,919	.....	.....	39,737
Champion .....	15,690	.....	.....	.....	.....	.....	15,690	.....	14	434	.....	.....	16,142
Drumheller .....	213,522	36,825	699,751	156,249	37,188	1,345	13,109	.....	7,608	10,566	8,815	.....	1,168,348
Edmonton .....	495,483	290	9,837	2,686	932	.....	6,806	.....	2,790	256	3,908	69	515,103
Gleichen .....	25,202	.....	.....	.....	.....	.....	25,202	.....	.....	.....	.....	.....	25,239
Halcourt .....	3,272	45	.....	.....	.....	.....	3,317	.....	9	15	31	.....	3,355
Lethbridge .....	161,752	26,424	136,193	13,395	445	7,382	3,321	.....	2,611	1,076	10,231	255	342,113
Magrath .....	541	.....	.....	.....	.....	.....	541	.....	.....	.....	.....	.....	541
Milk River .....	3,563	.....	.....	.....	.....	.....	3,563	.....	.....	138	.....	.....	3,701
Pakan .....	273	.....	.....	.....	.....	.....	273	.....	.....	3	.....	.....	276
Pakowki .....	1,423	.....	.....	.....	.....	.....	1,423	.....	75	.....	139	.....	1,359
Pembina .....	20,608	603	7,627	113	.....	.....	28,951	.....	84	162	46	.....	30,267
Redcliff .....	9,926	36	14,940	1,920	.....	.....	1,116	560	.....	.....	.....	.....	27,382
Rochester .....	729	.....	.....	.....	729	.....	.....	.....	.....	.....	.....	.....	729
Sexsmith .....	65	.....	.....	.....	.....	.....	65	.....	.....	15	.....	.....	80
Sheerness .....	17,598	.....	15,796	518	.....	.....	277	.....	.....	1,750	.....	.....	35,939
Taber .....	10,535	.....	469	.....	.....	47	174	.....	5	1,044	.....	.....	12,274
Tofield .....	15,330	.....	24,206	268	.....	.....	2,150	.....	35	205	110	871	44,213
Wetaskiwin .....	2,349	.....	.....	.....	.....	.....	2,349	.....	.....	.....	.....	.....	2,349
Whitecourt .....	194	.....	.....	.....	.....	.....	194	.....	.....	23	.....	.....	217
No Area .....	4,566	.....	.....	.....	.....	.....	88	.....	99	601	94	23	5,237
Total .....	1,184,120	65,303	936,566	180,788	39,072	10,100	29,303	560	15,225	19,498	25,252	2,020	2,453,263

How the total output of SUB-BITUMINOUS COAL was disposed of during 1938:

	Sold for Consumption in						Sold to Railroad Companies	Total Sales	Used under Colliery Boilers	Used by R.R. Colliery	Used making Briquettes	Used making Coke	Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total output for year including put to stock and lifted from stock or waste
	Alberta	British Columbia	Saskatchewan	Manitoba	Ontario	North-West Territories	United States										
Coalspur .....	25,558	30,068	5,120	51,018	7,420	.....	.....	196,733	315,917	15,558	4,560	.....	2,858	14,934	2,295	105	351,427
Morley .....	211	.....	.....	.....	.....	.....	.....	.....	211	.....	.....	.....	.....	.....	150	.....	61
Pekisko .....	4,331	.....	430	204	.....	.....	.....	.....	4,965	139	.....	.....	40	16	80	.....	5,080
Pincher .....	1,037	.....	.....	.....	.....	.....	.....	.....	1,037	.....	.....	.....	46	330	.....	.....	1,413
Prairie Creek .....	8,571	5,986	788	6,760	3,183	83	.....	58,054	83,425	6,706	.....	.....	494	1,335	771	.....	91,189
Saunders .....	5,959	586	11,001	12,761	5,698	.....	.....	.....	36,005	3,722	.....	.....	83	.....	68	.....	39,742
Total .....	45,667	36,640	17,339	70,743	16,301	83	.....	254,787	441,560	26,125	4,560	.....	3,521	16,615	3,364	105	488,912

BITUMINOUS																	
Cascade .....	7,499	1,277	4,514	15,359	.....	.....	.....	100,654	129,303	19,493	472	.....	5,316	.....	7,050	.....	170,039
Crownest .....	29,042	135,122	50,434	20,628	18,659	.....	22,407	870,311	1,146,603	22,939	648	.....	18,803	.....	17,487	.....	1,275,004
Mountain Park .....	9,452	93	2,354	126,145	79	.....	.....	514,926	653,059	25,390	.....	103,498	.....	.....	.....	.....	688,449
Nordegg .....	3,152	.....	.....	.....	.....	.....	.....	131,174	134,326	3,583	.....	.....	1,794	.....	2,202	.....	154,358
Total .....	49,145	136,492	1,011,207	162,132	18,738	.....	22,407	1,617,065	2,063,291	81,405	1,120	.....	25,913	60	26,739	.....	2,287,850





How the total output of DOMESTIC COAL was disposed of by months during 1938.

	Sold for Consumption in						Used under Colliery Boilers	Used by R.R. Colliery	Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total output for year including put to stock and lifted from stock or waste
	Alberta	British Columbia	Saskat- chewan	Manitoba	Ontario	United States							
January .....	133,339	6,560	102,281	28,466	7,068	1,212	3,136	60	1,864	1,324	1,642	372	283,296
February .....	155,212	6,634	133,446	28,203	5,813	1,152	3,709	82	1,920	1,325	3,379	60	334,057
March .....	81,020	2,353	52,344	6,190	1,857	384	2,544	36	378	521	4,425	205	142,997
April .....	56,671	1,703	24,221	818	259	70	2,073	11	453	259	2,919	155	83,464
May .....	39,399	1,499	20,409	2,025	33	65	1,486	8	78	217	2,175	123	62,921
June .....	33,674	642	15,535	3,229	395	272	1,596	4	72	134	1,733	277	53,544
July .....	33,063	650	14,289	1,840	144	78	1,366	4	111	174	2,010	233	49,472
August .....	50,758	4,975	58,587	6,335	637	703	1,852	40	1,569	215	692	282	124,697
September .....	64,487	8,647	66,073	16,057	3,962	1,181	1,892	40	825	1,332	1,272	168	163,056
October .....	169,405	11,491	161,167	27,394	4,768	1,266	2,737	88	1,975	6,387	602	100	385,976
November .....	211,134	11,879	166,323	32,830	8,049	2,103	3,529	108	4,718	5,890	524	44	445,995
December .....	155,958	8,270	121,890	27,401	6,087	1,614	3,383	83	1,262	1,720	3,879	1	323,788
Total .....	1,184,120	65,303	936,566	180,788	39,072	10,100	29,303	560	15,225	19,498	25,252	2,020	2,453,263
Percentage of Total Sales .....	49.01	2.70	38.77	7.48	1.62	.42							

THE MINES BRANCH

How the total output of SUB-BITUMINOUS COAL was disposed of by months during 1938:

	Sold for Consumption in					Sold to Railroad Companies	Total Sales	Used under Colliery Boilers	Used by Colliery R.R.	Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total output for year including put to stock and waste but not lifted from stock or waste
	Alberta	British Columbia	Saskatchewan	Manitoba	Ontario	North-West Territories								
January	6,461	5,562	1,551	13,179	3,092	.....	55,443	2,627	379	1,165	2,322	319	.....	61,617
February	5,922	3,805	2,341	9,291	1,637	.....	55,979	2,903	535	573	1,264	120	.....	61,104
March	6,829	1,727	419	5,512	929	.....	78,744	2,408	786	87	4,641	400	.....	86,241
April	543	598	148	732	110	.....	30,050	1,634	595	.....	2,128	155	.....	34,227
May	613	661	202	326	107	37	6,817	1,293	218	14	56	276	.....	8,107
June	332	254	330	100	177	46	5,520	1,353	200	.....	32	265	.....	7,741
July	1,415	1,124	416	816	347	.....	9,779	1,261	200	149	.....	265	.....	11,156
August	1,830	1,835	810	2,473	313	.....	13,757	2,083	200	108	.....	569	.....	15,626
September	2,836	3,053	1,946	5,464	1,745	.....	30,505	2,131	289	210	1,395	105	.....	34,425
October	6,433	4,712	3,342	8,448	2,821	.....	48,681	2,620	360	140	1,458	227	10	53,022
November	6,714	6,697	3,378	10,563	2,815	.....	52,837	2,849	385	533	1,530	180	.....	57,954
December	5,709	6,612	2,456	13,838	2,208	.....	52,209	2,962	413	542	1,741	175	.....	57,692
Total	45,667	36,640	17,339	70,743	16,301	83	441,560	26,125	4,560	3,521	16,615	3,364	105	488,912
Percentage of Total Sales	10.34	8.30	3.93	16.03	3.68	.02	57.70							





## THE MINES BRANCH

Amount of COAL sold during the years 1915 to 1938 (inclusive) for consumption in:

Year	Alberta	British Columbia	Saskatchewan	Manitoba	Ontario	North-West Territories	Quebec	United States	To Railroads	Total
1915	2,129,130	54,860	695,898	64,816	.....	.....	.....	25,047	.....	2,969,751
1916	2,866,670	86,413	1,007,765	97,265	.....	.....	.....	61,092	.....	4,119,205
1917	2,813,413	76,397	1,139,771	249,872	.....	.....	.....	93,081	.....	4,372,554
1918	3,440,154	101,189	1,372,439	311,168	629	.....	.....	133,276	.....	5,558,855
1919	2,991,110	85,461	1,115,329	314,290	308	.....	.....	121,212	.....	4,637,710
1920	1,647,202	128,850	1,310,146	600,962	13,911	.....	30	152,610	2,516,555	6,371,266
1921	1,415,861	116,089	1,294,441	495,388	9,898	.....	.....	133,823	2,023,204	5,488,704
1922	1,443,942	107,920	1,371,249	520,518	21,573	.....	102	105,514	2,076,291	5,647,109
1923	1,382,788	108,326	1,223,454	553,649	52,334	.....	.....	83,557	3,110,121	6,514,219
1924	1,431,327	114,186	1,189,788	510,407	16,525	.....	.....	39,142	1,613,574	4,914,949
1925	1,440,032	117,037	1,297,653	509,655	28,831	.....	.....	40,507	2,139,716	5,573,431
1926	1,325,290	127,858	1,296,181	591,267	74,559	.....	221	48,216	2,706,440	6,170,032
1927	1,508,089	187,028	1,427,904	612,542	22,680	.....	.....	52,160	2,759,765	6,653,168
1928	1,511,141	262,198	1,455,213	605,125	44,265	.....	.....	52,265	3,054,239	6,938,708
1929	1,446,555	236,840	1,455,213	588,647	55,647	.....	33	51,625	2,923,827	6,758,075
1930	1,234,382	227,385	1,221,542	541,537	29,784	.....	32	44,291	2,120,257	5,419,190
1931	1,020,694	171,610	905,574	442,761	27,036	.....	.....	30,434	1,668,451	4,266,660
1932	1,134,311	136,188	1,097,382	497,006	20,583	.....	100	27,366	1,619,921	4,532,892
1933	1,123,357	120,911	1,052,910	449,681	39,437	.....	135	18,449	1,500,061	4,304,838
1934	1,087,898	127,638	986,639	331,132	55,947	31	32	13,739	1,687,850	4,350,874
1935	1,246,959	221,758	1,120,816	435,813	64,659	.....	.....	24,712	1,960,555	5,075,272
1936	1,356,690	244,928	1,238,730	450,740	65,886	.....	.....	27,397	1,969,569	5,353,940
1937	1,326,054	269,023	1,085,812	437,954	62,521	82	.....	41,328	2,028,389	5,251,163
1938	1,278,932	238,435	1,011,207	412,253	75,521	83	.....	32,507	1,871,852	4,920,800

NOTE: Previous to 1920 Railroad Coal was included in Sales in Alberta.

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Coal produced by years from 1934 to 1938 inclusive:

## DOMESTIC COAL FIELD

Areas	1934	1935	1936	1937	1938
Ardley .....	21,549	25,565	29,216	23,990	21,420
Big Valley .....	2,056	3,494	2,918	2,514	2,069
Brooks .....	7,423	8,040	9,668	9,152	9,665
Camrose .....	39,435	57,466	65,331	57,235	52,662
Carbon .....	87,856	95,424	108,369	104,385	92,846
Castor .....	31,450	34,920	45,307	41,379	39,737
Champion .....	19,422	20,836	22,160	17,941	16,142
Drumheller .....	1,033,000	1,261,239	1,439,905	1,289,971	1,168,348
Edmonton .....	452,019	493,263	543,014	539,096	515,103
Gleichen .....	6,707	9,165	9,886	11,227	25,239
Halcourt .....	3,040	3,738	3,479	4,569	3,355
Lethbridge .....	312,677	349,676	351,864	349,881	342,113
Magrath .....	2,002	1,282	856	995	541
Milk River .....	4,796	4,485	5,261	4,312	3,701
Pakan .....			823	209	276
Pakowki .....	2,252	2,781	3,660	1,267	1,359
Pembina .....	70,964	72,149	53,948	33,398	30,267
Redcliff .....	45,938	34,149	35,971	29,086	27,382
Rochester .....	1,033	1,467	2,256	478	729
Sexsmith .....			44	43	80
Sheerness .....	67,942	91,024	47,305	39,360	35,939
Taber .....	16,549	14,669	12,588	14,615	12,274
Tetfield .....	66,003	59,426	42,845	48,315	44,213
Wetaskiwin .....	58	728	1,791	2,222	2,349
Whitecourt .....		67	153	300	217
No Area .....	1,395	2,859	2,913	5,210	5,237
Total .....	2,295,566	2,647,912	2,841,231	2,631,150	2,453,263

## SUB-BITUMINOUS COAL FIELD

Coalspur .....	410,108	413,436	388,766	350,594	351,427
Morley .....			123	769	61
Pekisko .....	2,881	4,298	5,005	4,928	5,080
Pincher .....	1,809	1,405	2,095	1,541	1,413
Prairie Creek .....	88,260	110,192	127,553	106,803	91,189
Saunders .....	34,484	37,055	42,944	41,894	39,742
Total .....	537,542	566,436	566,486	506,529	488,912

## BITUMINOUS COAL FIELD

Cascade .....	161,869	152,925	166,665	175,989	170,039
Crowsnest .....	991,233	1,297,404	1,310,487	1,326,450	1,275,004
Mountain Park .....	623,231	651,268	655,139	764,370	688,449
Nordegg .....	139,407	147,028	156,367	147,194	154,358
Total .....	1,915,740	2,248,625	2,288,658	2,414,003	2,287,850



THE MINES BRANCH

Total output of DOMESTIC COAL by areas during each month:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Ardley	3,027	2,736	1,191	438	38	777	461	749	1,197	3,803	4,524	2,479	21,420
Big Valley	237	332	154	66	16	21	34	32	73	299	494	311	2,069
Brooks	723	717	228	158	138	130	123	255	674	2,667	2,936	916	9,665
Camrose	7,420	7,421	3,105	2,348	1,160	861	1,312	2,081	1,943	6,562	10,960	7,489	52,662
Carbon	11,076	11,981	7,048	3,260	2,353	2,695	2,577	4,354	6,420	14,485	15,955	10,642	92,846
Caslor	4,785	4,437	1,141	485	331	184	201	472	1,003	7,253	12,963	6,482	39,737
Champion	1,370	1,339	566	610	396	310	351	771	1,541	3,791	3,166	1,931	16,142
Drumheller	141,407	180,742	58,102	27,192	20,749	12,512	5,902	58,608	81,888	197,842	220,572	162,832	1,168,348
Edmonton	63,250	72,184	45,012	28,043	21,274	19,451	16,600	13,680	23,495	63,217	80,996	67,901	515,103
Gleichen	1,322	945	407	3,307	262	803	267	1,249	769	5,052	5,917	4,939	25,239
Halcourt	649	439	172	36	9,038	6	121	121	210	363	823	536	3,355
Lethbridge	31,958	33,835	13,881	10,455	9,597	12,073	34,174	34,138	34,138	57,635	57,497	37,832	342,113
Magrath	88	69	47	33	22	7	16	133	19	33	117	68	541
Milk River	199	105	120	63	79	91	66	133	358	1,281	846	360	3,701
Pakan	52	29	7	10	11	18	11	85	99	544	382	90	1,359
Pakowki	3,085	3,570	2,886	2,013	825	334	1,903	2,204	2,472	3,426	4,291	3,258	30,267
Pembina	3,220	3,824	2,140	870	966	517	441	1,241	1,458	3,975	4,991	3,739	27,382
Redcliff	107	104	4	.....	.....	.....	.....	.....	.....	30	242	242	729
Rochester	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	50	30	80
Sexsmith	3,143	3,473	3,075	1,034	1,765	2,289	4,102	1,573	722	4,251	7,045	3,467	35,939
Sheerness	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Taber	956	1,021	476	589	237	224	296	397	1,192	3,214	2,186	1,486	12,274
Tofield	3,712	3,475	3,082	2,441	3,221	2,657	2,703	2,462	3,209	5,259	6,728	5,264	44,213
Wetaskiwin	439	301	10	9	40	45	42	40	92	329	577	425	2,349
Whitecourt	48	44	.....	.....	.....	.....	.....	.....	.....	.....	80	45	217
No Area	1,023	884	143	4	.....	.....	.....	.....	84	621	1,537	941	5,237
Total	283,296	334,057	142,997	83,464	62,921	53,544	49,472	124,697	163,056	384,976	445,995	323,788	2,453,263

Total output of SUB-BITUMINOUS COAL by areas during each month:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Coalspur	44,631	47,758	73,627	29,894	2,872	1,374	4,514	7,936	22,070	35,424	39,093	42,234	351,437
Morley	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	61
Fekisko	648	315	215	278	153	199	358	425	254	762	868	605	5,080
Pincher	113	135	79	47	46	10	36	56	145	243	296	207	1,413
Prarie Creek	10,797	8,067	8,841	3,828	4,400	5,897	5,865	6,016	7,645	9,232	11,198	9,403	91,189
Saunders	5,428	4,829	3,479	180	636	261	383	1,193	4,311	7,361	6,475	5,206	39,742
Total	61,617	61,104	86,241	34,227	8,107	7,741	11,156	15,626	34,425	53,022	57,954	57,692	488,912

## Total output of BITUMINOUS COAL by areas during each month:

Cascade .....	16,826	16,523	14,771	13,139	10,302	10,982	11,565	15,238	16,418	15,067	9,411	19,797	170,039
Crownsnest .....	90,934	102,398	107,781	96,667	107,198	105,331	100,071	141,604	97,943	102,269	109,125	113,683	1,275,004
Mountain Park .....	59,649	71,280	83,555	53,420	50,210	30,267	36,411	42,900	42,601	77,281	73,067	67,808	688,449
Nordegg .....	15,661	22,436	32,132	8,370	8,470	3,672	4,923	7,933	8,106	10,704	17,721	14,230	154,358
<b>Total</b> .....	<b>183,070</b>	<b>212,637</b>	<b>238,239</b>	<b>171,596</b>	<b>176,180</b>	<b>150,252</b>	<b>152,970</b>	<b>207,675</b>	<b>165,068</b>	<b>205,321</b>	<b>209,324</b>	<b>215,518</b>	<b>2,287,850</b>

## Total output of COAL, COKE and BRIQUETTES during the year:

Coal .....	527,983	607,798	467,477	289,287	247,208	211,537	213,598	347,998	362,549	644,319	713,273	596,998	5,230,035
Coke .....	5,938	5,385	6,030	5,440	5,944	5,342	5,252	5,808	5,388	6,102	5,864	5,999	68,682
Briquettes .....	4,641	5,114	3,750	1,350	1,366	665	986	2,045	2,239	3,710	4,082	7,291	39,239

## Total Sales of SUB-BITUMINOUS COAL for consumption by Railroad Companies:

Coalspur .....	20,258	29,113	57,383	24,808	988	108	377	1,463	10,389	18,220	16,519	17,107	196,733
Prairie Creek .....	5,310	3,870	5,945	3,110	3,883	5,412	5,284	5,033	5,072	4,705	6,151	4,279	58,054
<b>Total</b> .....	<b>25,568</b>	<b>32,983</b>	<b>63,328</b>	<b>27,918</b>	<b>4,871</b>	<b>5,520</b>	<b>5,661</b>	<b>6,496</b>	<b>15,461</b>	<b>22,925</b>	<b>22,670</b>	<b>21,386</b>	<b>254,787</b>

## Total Sales of BITUMINOUS COAL for consumption by Railroad Companies:

Cascade .....	8,519	8,779	8,695	7,966	8,797	8,522	8,425	10,590	11,856	7,114	4,321	7,070	100,654
Crownsnest .....	50,240	64,900	73,447	69,032	77,213	81,432	76,244	117,623	62,729	66,102	66,674	64,685	870,311
Mountain Park .....	43,437	55,325	65,705	41,079	40,122	22,019	24,389	29,976	29,208	60,111	55,557	47,998	514,926
Nordegg .....	13,172	19,376	28,555	7,229	6,317	3,637	4,490	6,330	6,597	9,199	14,744	11,528	131,174
<b>Total</b> .....	<b>115,368</b>	<b>148,380</b>	<b>176,402</b>	<b>125,306</b>	<b>132,449</b>	<b>115,600</b>	<b>113,548</b>	<b>164,519</b>	<b>110,390</b>	<b>142,526</b>	<b>141,296</b>	<b>131,281</b>	<b>1,617,065</b>
<b>Grand Total</b> .....	<b>140,936</b>	<b>181,363</b>	<b>239,730</b>	<b>153,224</b>	<b>137,320</b>	<b>121,120</b>	<b>119,209</b>	<b>171,015</b>	<b>125,851</b>	<b>165,451</b>	<b>163,966</b>	<b>152,667</b>	<b>1,871,852</b>

## THE MINES BRANCH

Total amount of Domestic Coal disposed of by areas during each month for consumption in Alberta:  
LUMP COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Ardley .....	568	585	279	6	.....	33	.....	137	362	748	528	297	3,543
Big Valley .....	35	20	20	7	.....	.....	.....	.....	31	173	181	120	587
Brooks .....	682	634	218	150	130	122	115	252	663	2,504	2,178	762	8,410
Canrose .....	3,063	3,363	797	627	245	245	323	672	512	2,617	4,918	3,101	20,481
Carbon .....	3,063	3,550	1,074	827	470	524	180	1,133	1,003	4,629	5,187	2,939	24,609
Castor .....	1,679	999	409	196	37	57	55	155	350	1,579	3,061	1,394	10,031
Champion .....	1,032	1,066	441	503	331	265	301	663	1,345	2,969	2,736	1,629	13,281
Drumheller .....	9,925	15,252	4,456	2,381	2,625	812	430	6,510	4,642	16,989	20,830	13,704	98,556
Edmonton .....	16,390	19,811	9,066	3,941	1,770	570	778	2,487	3,677	15,358	20,267	16,542	110,657
Gleichen .....	.....	.....	.....	.....	.....	367	90	220	.....	1,718	1,589	936	4,920
Halcourt .....	363	307	83	28	.....	6	.....	36	200	312	635	390	2,360
Lethbridge .....	5,743	7,781	3,834	2,984	2,182	1,558	2,779	4,483	7,003	14,480	13,582	9,895	76,304
Magrath .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Milk River .....	28	9	.....	9	13	5	13	.....	97	.....	410	16	600
Pakan .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pakowki .....	12	4	7	.....	11	6	5	10	46	279	143	26	549
Pembina .....	565	603	201	210	97	4	653	357	263	681	758	494	4,886
Redcliff .....	491	584	446	.....	.....	.....	.....	28	468	1,499	1,570	274	5,360
Rochester .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	18	132	116	266
Sexsmith .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sheerness .....	161	189	43	27	14	16	15	20	49	188	751	220	1,693
Taber .....	634	667	313	442	164	152	180	222	837	2,074	1,359	801	7,843
Tofield .....	1,166	1,142	364	216	175	127	128	141	225	1,263	1,766	1,046	7,759
Wetaskiwin .....	.....	106	.....	.....	.....	.....	.....	.....	.....	74	124	84	549
Whitcourt .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
No Area .....	498	454	76	.....	.....	.....	.....	.....	2	289	685	367	2,371
Total .....	46,257	57,126	22,127	12,554	8,324	4,869	6,045	17,526	21,775	70,441	83,400	55,173	405,617



## MINE-RUN COAL

Ardley	902	888	158	35	38	20	37	35	96	1,083	2,218	1,160	6,670
Big Valley	181	300	123	55	15	20	33	30	40	115	285	178	1,385
Brooks	367	186	25	...	...	...	...	...	...	142	68	218	1,210
Camrose	690	854	397	150	132	84	49	251	463	195	414	1,136	1,504
Carbon	2,726	3,082	551	183	162	75	124	209	515	2,508	2,295	1,136	9,009
Castor	80	48	...	...	...	...	...	...	...	5,270	9,118	4,714	26,729
Champion	906	739	190	216	177	423	180	1,055	742	313	...	883	441
Drumheller	13,889	14,852	11,203	9,353	9,821	10,094	9,367	2,739	8,672	1,108	1,871	883	8,490
Edmonton	1,322	945	407	2,843	262	258	157	981	769	16,225	17,895	14,883	139,593
Gleichen	274	122	86	...	...	...	...	85	28	2,878	3,922	3,789	18,533
Halcourt	2,491	1,295	1,246	1,145	1,048	1,090	1,207	1,389	1,438	12	140	137	884
Lethbridge	88	69	47	33	22	7	16	129	19	1,713	1,719	1,690	17,471
Magrath	171	94	117	53	63	86	50	...	261	33	117	68	541
Milk River	...	29	...	...	...	...	...	...	...	1,207	382	308	2,921
Pekan	40	46	...	10	...	12	6	...	...	44	120	74	267
Pakowki	92	170	8	151	54	...	44	112	53	404	239	64	874
Pembina	227	475	391	188	237	136	142	412	258	29	21	49	988
Redcliff	59	55	3	...	...	...	...	...	94	41	...	666	3,009
Rochester	...	...	...	...	...	...	...	...	...	...	22	65	204
Sexsmith	1,453	1,815	816	531	254	164	337	291	433	2,739	4,605	2,286	65
Sheerness	100	129	68	56	32	36	73	49	191	617	229	288	15,724
Taber	871	851	515	402	377	324	245	165	552	636	1,020	729	1,868
Tofield	...	...	...	...	...	5	...	...	92	40	16	40	6,687
Wetaskiwin	40	32	...	...	...	...	...	...	...	...	77	32	193
Whitecourt	50	6	...	2	...	...	...	...	...	...	9	67	181
No Area	...	...	...	...	...	...	...	...	33	44	...	...	211
Total	27,019	27,082	16,351	16,006	12,694	12,882	12,058	7,948	14,815	37,396	46,852	33,549	264,653

## THE MINES BRANCH

## NUT COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Ardley	561	473	303	170	.....	159	42	139	113	340	583	380	3,263
Big Valley	20	10	3	3	.....	.....	.....	.....	.....	.....	12	9	70
Brooks	.....	9	1	2	.....	.....	.....	.....	.....	.....	122	18	161
Camrose	1,955	1,870	1,204	945	452	365	374	723	654	1,875	2,424	2,186	15,027
Carbon	2,354	2,823	2,325	1,292	525	677	604	1,104	1,538	3,496	3,269	2,447	22,454
Castor	81	70	40	48	27	30	7	60	47	68	177	86	741
Champion	159	144	89	83	57	38	45	95	171	447	375	265	1,968
Drumheller	4,180	6,841	3,412	2,951	1,743	802	632	2,719	3,097	5,908	9,575	4,712	45,572
Edmonton	17,599	19,804	14,273	8,318	5,975	5,466	3,999	5,647	6,273	16,676	22,577	20,420	147,027
Gleichen	.....	.....	.....	464	.....	161	17	48	.....	456	386	214	1,749
Halcourt	.....	.....	.....	4	.....	.....	.....	.....	.....	3	5	4	16
Lethbridge	963	1,806	1,154	936	829	559	955	1,670	1,935	3,931	3,467	2,256	20,461
Pembina	542	791	779	500	65	49	1	285	779	973	1,046	1,369	7,179
Redcliff	57	33	23	18	.....	4	3	.....	.....	.....	169	193	500
Rochester	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7	35	93
Sheerness	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	51	12	89
Taber	84	118	27	52	20	14	17	36	29	179	114	132	822
Tofield	248	307	.....	.....	.....	.....	.....	.....	.....	.....	266	280	1,252
Wetaskiwin	278	195	10	9	40	40	42	40	.....	215	437	263	1,569
No Area	304	243	38	.....	.....	.....	.....	.....	1	202	600	360	1,748
Milk River	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	42	.....	42
Total	29,385	35,537	22,688	15,795	9,733	8,367	6,738	12,566	14,637	34,943	45,773	35,641	271,803

## SLACK COAL

Ardley	526	561	170	243	.....	485	305	333	273	442	437	327	4,102
Brooks	1,683	1,424	1,105	998	444	229	450	267	631	529	1,379	1,533	5
Camrose	1,390	1,231	807	371	135	379	450	398	554	869	954	1,533	10,672
Carbon	8,879	10,057	4,968	2,809	2,686	1,523	1,137	2,937	4,201	6,211	8,270	7,226	8,828
Drumheller	12,582	15,050	9,542	5,667	3,173	3,065	2,532	2,832	3,776	11,369	15,008	13,590	60,904
Edmonton	2	3	3	3	.....	.....	.....	.....	.....	.....	.....	.....	98,206
Halcourt	4,319	6,335	2,667	1,671	1,384	1,491	2,030	4,774	2,738	5,934	7,454	6,719	12
Lethbridge	599	641	572	412	108	107	677	691	818	997	1,217	716	47,516
Pembina	394	43	12	4	5	.....	.....	.....	176	139	216	68	7,553
Redcliff	48	49	1	.....	.....	.....	.....	.....	.....	5	37	26	1,057
Rochester	35	36	.....	.....	.....	.....	.....	.....	.....	.....	21	.....	166
Speerness	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	92
Taber	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tofield	174	.....	.....	138	713	277	639	466	81	100	44	.....	2,632
Wetaskiwin	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	38	38
Whitecourt	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	13	13
No Area	47	37	7	3	.....	.....	.....	.....	1	30	69	42	236
Castor	.....	.....	.....	.....	.....	.....	.....	.....	8	.....	.....	.....	8
Pakan	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6	6
Total	30,678	35,467	19,854	12,316	8,648	7,556	8,222	12,718	13,260	26,625	35,109	31,595	242,048

Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in Alberta:

## LUMP COAL

Coalspur	1,142	1,496	2,272	9	47	36	401	210	427	1,088	1,726	1,706	10,560
Pekisko	.....	.....	.....	.....	.....	.....	.....	.....	.....	82	52	68	202
Pincher	24	40	29	14	9	.....	11	3	36	83	96	63	408
Prairie Creek	416	494	329	49	39	.....	.....	32	238	557	585	526	3,265
Saunders	274	85	1,087	.....	110	.....	.....	66	189	545	294	239	2,889
Total	1,856	2,115	3,717	72	205	36	412	311	890	2,355	2,753	2,602	17,324



MINE-RUN COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Coalspur .....	137	112	98	105	57	53	54	56	78	178	186	149	1,263
Morley .....	465	312	202	221	141	137	346	453	201	557	528	37	61
Pekisko .....	45	48	.....	.....	.....	.....	.....	.....	.....	.....	.....	429	3,992
Pincher .....	49	73	47	12	8	13	12	27	17	43	60	44	93
Prairie Creek .....	106	115	100	6	13	.....	5	41	89	283	201	105	405
Saunders .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,064
Total .....	802	660	447	344	219	203	417	577	385	1,061	999	764	6,878

NUT COAL

Coalspur .....	2,439	1,728	1,291	35	107	36	396	505	699	1,271	1,238	1,148	10,893
Pekisko .....	10	18	34	15	17	8	12	16	58	100	141	70	523
Pincher .....	112	202	52	4	53	10	.....	59	88	204	130	99	1,013
Prairie Creek .....	153	410	376	.....	12	9	4	107	117	162	399	104	1,853
Saunders .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total .....	2,714	2,358	1,753	54	189	63	412	687	962	1,737	1,908	1,515	14,352

SLACK COAL

Coalspur .....	535	266	421	.....	.....	.....	45	46	231	547	531	220	2,842
Morley .....	150	.....	.....	.....	.....	.....	.....	.....	.....	27	40	.....	150
Pekisko .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5	.....	.....	67
Pincher .....	406	523	491	73	.....	30	129	170	329	693	448	596	13
Prairie Creek .....	28	.....	.....	.....	.....	.....	.....	39	31	8	35	12	3,888
Saunders .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	153
Total .....	1,119	789	912	73	.....	30	174	255	599	1,280	1,054	828	7,113

Total amount of Bituminous Coal disposed of by areas during each month for consumption in Alberta:

## LUMP COAL

Cascade .....	222	228	182	50	2	20	2	29	120	209	172	263	1,499
Crowsnest .....	447	540	271	167	84	64	387	82	155	387	489	454	3,277
Mountain Park .....	138	212	451	95	60	51	29	75	54	94	177	200	1,636
Nordegg .....													
Total .....	807	980	904	312	199	155	95	186	329	690	838	917	6,412

## MINE-RUN COAL

Cascade .....	2,120	2,610	50	1,096	108	111	54	1,269	33	2,051	2,150	2,415	356
Crowsnest .....	602	546	1,470	175	877	546	1,045	162	849	1,521	1,380	1,422	18,498
Mountain Park .....	200	280	263	57	507	13	12	215	227	326	586	466	7,370
Nordegg .....													3,152
Total .....	2,922	3,436	1,958	1,387	1,685	847	1,208	1,646	1,970	3,898	4,116	4,303	29,376

## NUT COAL

Cascade .....	135	143	118	81	30	67	54	110	165	161	163	208	1,435
Crowsnest .....	144	168	98	55	74	49	47	99	248	366	383	510	2,241
Mountain Park .....							49	79					128
Nordegg .....													
Total .....	279	311	216	136	104	116	150	288	413	527	546	718	3,804

## SLACK COAL

Cascade	15	15	16	824	486	736	912	680	432	78	15	4,209	
Crowsnest	290	875	386	200	231	161	280	263	895	576	621	5,026	
Mountain Park	31		30			31	2			32	192	318	
Total	336	890	402	230	1,072	717	928	1,194	943	1,327	686	828	9,553



## Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in British Columbia:

## LUMP COAL

Coalspur .....	2,128	1,657	145	102	43	16	410	651	848	1,835	2,959	2,686	13,480
Prairie Creek .....	426	347	84	38	.....	31	36	42	331	420	508	723	2,944
Saunders .....	27	.....	.....	.....	.....	.....	.....	.....	80	138	67	68	422
Total .....	2,581	2,004	229	140	43	47	446	693	1,259	2,393	3,534	3,477	16,846

## MINE-RUN COAL

Coalspur .....	80	46	46	.....	89	97	175	169	33	.....	32	.....	675
Prairie Creek .....	.....	.....	.....	.....	32	.....	.....	32	.....	46	.....	.....	202
Saunders .....	.....	.....	.....	.....	.....	.....	.....	.....	33	.....	.....	.....	33
Total .....	80	46	46	.....	121	97	175	201	66	46	32	.....	910

## NUT COAL

Coalspur .....	2,528	1,497	1,057	311	497	110	473	878	1,466	1,839	2,518	2,723	15,897
Prairie Creek .....	335	205	384	147	.....	.....	30	63	247	350	613	369	2,743
Saunders .....	5	.....	.....	.....	.....	.....	.....	.....	15	67	.....	43	130
Total .....	2,868	1,702	1,441	458	497	110	503	941	1,728	2,256	3,131	3,135	18,770

## SLACK COAL

Coalspur .....	33	53	11	.....	.....	.....	.....	.....	.....	16	.....	.....	49
Prairie Creek .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	64
Saunders .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
Total .....	33	53	11	.....	.....	.....	.....	.....	.....	17	.....	.....	114



Total amount of Bituminous Coal disposed of by areas during each month for consumption in British Columbia:  
LUMP COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Cascade		32								126	46		204
Crowsnest	340	177	177	236	151	200	158	104	122	406	140	157	2,368
Total	340	209	177	236	151	200	158	104	122	532	186	157	2,572
MINE-RUN COAL													
Cascade	153	46	179		32		33	33	46	177		46	745
Crowsnest	48	130	47	49	47			259	643	336	294	245	2,098
Mountain Park										59	34		93
Total	201	176	226	49	79		33	292	689	572	328	291	2,936
NUT COAL													
Cascade			9				48	187		51		33	328
Crowsnest	676	589	414	382	293	287	367	475	655	980	945	1,072	7,135
Total	676	589	423	382	293	287	415	662	655	1,031	945	1,105	7,463
SLACK COAL													
Crowsnest	8,760	8,979	10,987	9,307	8,517	9,022	9,453	10,868	9,926	11,296	13,250	13,156	123,521

Total amount of Domestic Coal disposed of by areas during each month for consumption in Saskatchewan:

## LUMP COAL

Ardley .....	138	33	199	.....	.....	.....	37	.....	130	298	170	67	1,072
Brooks .....	31	64	272	.....	.....	.....	34	112	81	396	553	126	774
Camrose .....	209	110	1,373	.....	.....	.....	165	175	625	1,008	605	161	1,980
Carbon .....	854	1,317	16,756	178	5,177	5,346	3,185	874	18,563	79,904	1,358	1,006	8,327
Drumheller .....	49,667	63,651	191	217	110	242	213	70	311	946	82,078	59,595	411,351
Edmonton .....	1,061	990	3,171	2,117	2,117	1,496	1,052	2,647	12,283	10,304	1,777	674	6,802
Lethbridge .....	4,278	10,542	58	.....	.....	.....	.....	33	427	932	17,417	10,692	93,227
Pembina .....	.....	832	318	30	.....	.....	.....	371	315	315	1,126	557	5,362
Redcliff .....	769	66	.....	.....	.....	.....	.....	44	205	60	227	69	677
Sheerness .....	.....	130	32	.....	.....	.....	.....	.....	.....	833	265	100	469
Taber .....	97	.....	.....	.....	.....	.....	.....	.....	.....	.....	727	171	2,193
Tofield .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total .....	57,104	77,793	22,312	7,719	7,154	4,644	3,871	31,651	38,638	101,920	106,303	73,218	532,327

## MINE-RUN COAL

Camrose .....	71	34	.....	.....	.....	697	619	733	875	40	197	66	408
Carbon .....	.....	.....	.....	.....	.....	.....	816	338	2,754	1,048	371	40	4,094
Castor .....	.....	1,320	548	533	99	.....	.....	29	46	554	486	40	9,042
Drumheller .....	506	2,519	1,108	488	205	.....	.....	146	32	190	67	.....	9,910
Lethbridge .....	7,284	1,021	330	369	469	232	.....	3,548	148	704	181	656	3,473
Pembina .....	362	430	1,778	233	1,370	1,973	.....	.....	1,056	100	420	424	3,318
Redcliff .....	316	926	.....	.....	.....	1,636	.....	1,326	1,798	2,089	2,831	2,921	13,263
Sheerness .....	731	887	2,051	1,485	1,704	.....	.....	.....	.....	.....	.....	.....	21,050
Taber .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tofield .....	960	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total .....	10,230	7,137	5,815	3,108	4,544	5,276	6,120	6,273	3,640	3,755	4,553	4,107	64,558

## NUT COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Ardley	204	96	32	101	69	63	35	65	133	792	498	168	1,988
Camrose	71	132	116	105	32	35	35	65	33	166	78	33	962
Carbon	405	618	785	105	32	35	35	96	345	600	611	575	4,300
Drumheller	18,353	24,232	10,765	4,610	2,565	1,611	528	9,560	11,250	32,218	29,404	23,016	168,112
Edmonton	492	608	716	278	551	75	928	33	64	222	320	227	3,035
Lethbridge	629	1,058	1,481	903	551	726	928	3,650	3,163	4,994	5,203	3,046	26,332
Pembina	745	183	155	149	158	80	246	488	160	327	952	420	4,063
Redcliff	101	122	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	253
Sheerness	32	33	.....	47	34	.....	37	.....	.....	.....	30	.....	183
Tofield	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total	21,032	27,082	14,050	6,193	3,409	2,590	1,867	13,957	15,148	39,319	37,096	27,485	209,228

## SLACK COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Ardley	.....	.....	16	.....	.....	.....	.....	58	.....	.....	.....	.....	74
Camrose	303	460	144	241	182	163	326	337	429	322	297	564	3,768
Carbon	12,651	19,522	9,032	6,247	4,278	2,205	1,405	5,124	6,462	13,221	15,697	15,402	111,246
Drumheller	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Edmonton	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lethbridge	366	264	195	360	431	195	202	547	1,386	1,700	1,032	46	6,724
Pembina	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Redcliff	493	936	520	250	247	141	150	242	138	896	1,143	851	6,007
Sheerness	102	252	260	103	32	102	133	170	98	34	202	185	1,673
Tofield	.....	.....	.....	.....	132	220	215	228	134	.....	.....	32	961
Total	13,915	21,434	10,167	7,201	5,302	3,026	2,431	6,706	8,647	16,173	18,371	17,080	130,453

Total amount of Sub-Bituminous Coal disposed by areas during each month for consumption in Saskatchewan:

## LUMP COAL

Coalspur .....	132	203	.....	.....	.....	47	229	391	627	277	197	2,103
Prairie Creek .....	32	131	.....	.....	.....	62	65	31	65	63	.....	449
Saunders .....	277	262	120	.....	.....	.....	113	513	1,037	681	346	3,349
Total .....	441	596	120	.....	.....	109	407	935	1,729	1,021	543	5,901

## MINE-RUN COAL

Pekisko .....	.....	.....	.....	45	.....	50	.....	41	32	196	66	430
Prairie Creek .....	33	46	.....	.....	.....	.....	.....	.....	.....	.....	.....	79
Saunders .....	68	.....	.....	.....	.....	.....	33	87	277	267	170	902
Total .....	101	46	.....	45	.....	50	33	128	309	463	236	1,411

## NUT COAL

Coalspur .....	98	281	.....	58	51	280	205	176	158	258	696	409	2,670
Prairie Creek .....	31	32	.....	.....	.....	.....	.....	.....	.....	32	31	98	224
Saunders .....	674	851	202	45	121	.....	28	88	532	578	619	657	4,395
Total .....	803	1,164	202	103	172	280	233	264	690	868	1,346	1,164	7,289

## SLACK COAL

Coalspur .....	.....	347	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	347
Prairie Creek .....	36	188	97	.....	30	.....	74	106	193	436	548	513	36
Saunders .....	170	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2,355
Total .....	206	535	97	.....	30	.....	74	106	193	436	548	513	2,738



Total amount of Bituminous Coal disposed of by areas during each month for consumption in Saskatchewan:  
LUMP COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Cascade .....	67	46	.....	.....	.....	.....	.....	.....	25	152	130	.....	307
Crowsnest .....	.....	.....	.....	41	.....	.....	.....	.....	81	100	322	65	722
Mountain Park .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	46	.....	47	93
Total .....	67	46	.....	41	.....	.....	.....	.....	106	298	452	112	1,122

MINE-RUN COAL

Crowsnest .....	1,010	1,908	634	147	49	83	31	539	421	1,240	1,570	1,337	8,969
Mountain Park .....	111	.....	77	33	65	113	150	90	145	561	427	310	2,082
Total .....	1,121	1,908	711	180	114	196	181	629	566	1,801	1,997	1,647	11,051

NUT COAL

Cascade .....	260	180	67	33	.....	42	.....	80	117	299	184	236	1,498
Crowsnest .....	385	612	161	14	.....	47	154	212	236	777	511	445	3,554
Total .....	645	792	228	47	.....	89	154	292	353	1,076	695	681	5,052

SLACK COAL

Cascade .....	451	557	396	141	375	190	47	95	.....	246	.....	211	2,709
Crowsnest .....	3,602	3,811	2,587	1,733	3,596	2,706	1,908	1,976	2,342	3,935	4,865	4,128	37,189
Mountain Park .....	.....	.....	.....	33	.....	.....	.....	.....	.....	.....	66	80	179
Total .....	4,053	4,368	2,983	1,907	3,971	2,896	1,955	2,071	2,342	4,181	4,931	4,419	40,077

Total amount of Domestic Coal disposed of by areas during each month for consumption in Manitoba:

## LUMP COAL

Camrose	91	32	32	32	74	30	34	35	32	360
Carbon	992	538	138	42	68	488	379	436	497	3,648
Drumheller	16,936	17,568	2,993	209	442	8,959	17,746	21,249	16,185	105,450
Edmonton	453	229	201	34	33	119	324	512	195	2,212
Lethbridge	188	888	66	45	1,931	1,091	1,081	1,314	966	11,006
Redcliff	312	287	64	.....	774	74	380	412	391	1,920
Sheerness	66	.....	.....	.....	.....	.....	167	68	.....	66
Tofield	33	.....	.....	.....	.....	.....	.....	.....	.....	268
Total	19,071	19,542	3,462	353	1,774	2,474	20,111	24,026	18,266	124,930

## MINE-RUN COAL

Drumheller	306	330	332	.....	103	133	331	139	67	2,221
Lethbridge	964	.....	.....	.....	.....	.....	.....	.....	.....	964
Sheerness	385	.....	67	.....	.....	.....	.....	.....	.....	452
Total	1,655	330	399	.....	103	133	331	139	67	3,637

## NUT COAL

Camrose	34	65	33	.....	.....	18	.....	.....	32	216
Carbon	605	180	33	.....	.....	32	35	330	98	1,382
Drumheller	3,616	4,158	1,200	171	306	2,620	5,080	5,774	4,300	28,916
Edmonton	33	66	.....	.....	.....	47	197	67	64	474
Lethbridge	.....	75	.....	80	.....	54	174	198	33	691
Pembina	.....	.....	.....	.....	.....	.....	.....	.....	.....	80
Total	4,288	4,544	1,266	307	251	1,409	5,486	6,369	4,527	31,759

## SLACK COAL

Carbon	3,419	3,586	1,063	158	.....	33	1,466	2,296	4,008	33
Drumheller	.....	201	.....	.....	.....	.....	.....	.....	533	19,662
Lethbridge	33	.....	.....	.....	.....	.....	.....	.....	.....	734
Pembina	.....	.....	.....	.....	.....	.....	.....	.....	.....	33
Total	3,452	3,787	1,063	158	.....	1,062	1,466	2,296	4,541	20,462

Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in Manitoba:

## LUMP COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Coalspur .....	4,758	2,659	910	...	32	...	350	1,518	1,792	2,272	2,706	4,210	21,207
Prairie Creek .....	719	422	744	31	...	...	...	63	104	356	588	548	3,575
Saunders .....	1,013	565	182	33	34	44	30	149	970	652	978	737	5,327
Total .....	6,490	3,586	1,836	64	66	44	380	1,730	2,866	3,280	4,272	5,495	30,109

## MINE-RUN COAL

Pekisko .....	152	...	...	...	...	...	...	...	...	52	...	...	204
Saunders .....	15	67	...	...	...	...	...	...	...	101	180	31	394
Total .....	167	67	...	...	...	...	...	...	...	153	180	31	598

## NUT COAL

Coalspur .....	3,914	3,721	2,753	669	150	56	236	452	1,396	2,953	3,876	5,823	25,999
Prairie Creek .....	199	186	31	...	...	...	...	...	198	361	643	627	2,245
Saunders .....	865	726	438	...	110	...	32	199	263	794	435	398	4,260
Total .....	4,978	4,633	3,222	669	260	56	268	651	1,857	4,108	4,954	6,848	32,504

## SLACK COAL

Coalspur .....	485	373	270	...	...	...	134	92	364	393	747	954	3,812
Prairie Creek .....	618	245	77	...	...	...	...	...	...	...	...	...	940
Saunders .....	441	387	107	...	...	...	34	...	377	514	410	510	2,780
Total .....	1,544	1,005	454	...	...	...	168	92	741	907	1,157	1,464	7,532





## THE MINES BRANCH

Total amount of Domestic Coal disposed of by areas during each month for consumption in Ontario:

## LUMP COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Camrose .....	.....	.....	.....	.....	.....	.....	.....	.....	48	.....	.....	.....	48
Carbon .....	37	.....	.....	.....	.....	.....	.....	.....	48	.....	36	.....	121
Drumheller .....	5,923	5,061	1,539	194	33	95	110	533	3,208	3,610	6,278	4,888	31,472
Edmonton .....	176	35	34	.....	.....	.....	.....	.....	98	186	16	36	581
Lethbridge .....	41	.....	33	.....	.....	234	.....	33	.....	71	.....	33	445
Total .....	6,177	5,096	1,606	194	33	329	110	566	3,402	3,867	6,330	4,957	32,667

## MINE-RUN COAL

Castor .....	.....	.....	.....	.....	.....	.....	34	.....	.....	.....	22	.....	22
Drumheller .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	34
Total .....	.....	.....	.....	.....	.....	.....	34	.....	.....	.....	22	.....	56

## NUT COAL

Carbon .....	36	67	30	.....	.....	.....	.....	.....	.....	31	114	38	316
Drumheller .....	766	650	188	65	.....	66	.....	71	495	750	1,536	1,063	5,650
Edmonton .....	89	.....	33	.....	.....	.....	.....	.....	65	88	47	29	351
Total .....	891	717	251	65	.....	66	.....	71	560	869	1,697	1,130	6,317

## SLACK COAL

Drumheller .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	32	.....	.....	32
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Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in Ontario:

## LUMP COAL

Coalspur .....	1,319	633	376	31	32	.....	237	146	716	837	1,159	796	6,282
Prairie Creek .....	752	133	32	.....	.....	.....	.....	33	276	332	455	442	2,515
Saunders .....	704	639	454	47	31	.....	.....	38	455	882	677	700	4,627
Total .....	2,775	1,465	862	78	63	.....	237	217	1,447	2,051	2,291	1,938	13,424

## MINE-RUN COAL

Saunders .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	295	.....	.....	295
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## NUT COAL

Coalspur .....	41	29	67	32	.....	.....	11	63	147	164	424	160	1,138
Prairie Creek .....	148	32	.....	.....	.....	.....	.....	.....	134	211	33	110	668
Saunders .....	128	111	.....	.....	44	177	.....	33	17	100	67	.....	677
Total .....	317	172	67	32	44	177	11	96	298	475	524	270	2,485

## SLACK COAL

Saunders .....	.....	.....	.....	.....	.....	.....	99	.....	.....	.....	.....	.....	99
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Total amount of Bituminous Coal disposed of by areas during each month for consumption in Ontario:

## MINE-RUN COAL

Crowsnest .....	66	25	67	.....	34	.....	.....	.....	.....	.....	48	.....	288
Mountain Park .....	.....	.....	.....	45	.....	.....	.....	.....	.....	.....	.....	.....	45
Total .....	166	25	67	45	34	.....	.....	.....	.....	.....	48	48	333



## NUT COAL

Carbon .....	40	35	41	.....	.....	.....	.....	.....	.....	33	125	202	66	.....	215
Drumheller .....	235	259	34	.....	.....	.....	.....	.....	.....	79	502	350	379	.....	1,663
Lethbridge .....	.....	507	169	70	33	34	39	452	763	.....	.....	324	598	.....	3,491
Total .....	275	801	244	70	33	34	39	610	526	1,179	977	5,369	.....	.....	.....

## SLACK COAL

Lethbridge .....	204	.....	.....	.....	.....	.....	39	185	45	136	.....	609	.....	.....	.....
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Total amount of Bituminous Coal disposed of by areas during each month for consumption in the United States:

## LUMP COAL

Crowsnest .....	36	.....	.....	33	.....	.....	.....	.....	.....	69	.....	138	.....	.....	.....
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## MINE-RUN COAL

Crowsnest .....	48	.....	.....	.....	.....	192	129	48	.....	46	48	511	.....	.....	.....
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## NUT COAL

Crowsnest .....	1,627	1,033	773	473	240	36	158	396	429	379	630	819	6,993	.....	.....
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## SLACK COAL

Crowsnest .....	1,249	1,716	1,455	496	508	491	445	582	1,430	1,852	2,069	2,472	14,765	.....	.....
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Amount of Domestic Coal used under Colliery Boilers by areas during each month:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Ardley	100	75	50	50	8	80	40	60	70	100	90	80	795
Brooks	10	10	9	6	8	45	6	3	11	12	12	10	105
Camrose	90	90	80	70	50	45	70	70	30	110	110	90	905
Carbon	40	50	40	20	10	10	6	10	20	30	40	30	306
Castor	28	12	10	4	4	552	504	853	6	13	18	15	106
Drumheller	1,399	2,111	1,101	885	566	552	504	853	833	1,250	1,560	1,495	13,109
Edmonton	799	697	709	470	393	300	201	307	490	689	879	872	6,806
Halcourt	10	7	335	256	178	145	70	88	73	221	565	7	45
Lethbridge	433	443	62	56	58	94	103	93	118	125	130	148	3,321
Pembina	66	63	30	40	20	12	10	10	20	30	30	30	1,116
Sheerness	38	27	30	7	3	3	6	8	15	50	26	30	277
Taber	11	12	6	7	3	350	350	350	200	100	50	50	174
Torfield	100	100	100	200	200	350	350	350	9	10	12	12	2,150
No Area	12	12	12	9	9	9	9	9	9	9	9	9	88
Total	3,136	3,709	2,544	2,073	1,486	1,596	1,366	1,852	1,892	2,737	3,529	3,383	29,303

Amount of Sub-Bituminous Coal used under Colliery Boilers by areas during each month:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Coalspur	1,484	1,822	1,589	1,184	720	732	733	1,220	1,221	1,535	1,613	1,705	15,558
Morley	15	3	13	12	12	12	12	12	12	12	12	12	139
Pekisko	648	595	490	389	444	575	482	659	548	582	622	672	6,706
Prairie Creek	480	483	316	49	117	34	34	193	350	491	602	573	3,722
Saunders													
Total	2,627	2,903	2,408	1,634	1,293	1,353	1,261	2,084	2,131	2,620	2,849	2,962	26,125

Amount of Bituminous Coal used under Colliery Boilers by areas during each month:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Cascade	1,568	1,543	1,550	1,475	1,305	1,272	1,304	1,721	1,495	1,922	1,817	2,521	19,493
Crownest	2,270	2,390	2,201	2,019	1,661	1,555	1,542	1,588	1,500	1,652	2,231	2,330	22,939
Mountain Park	2,940	2,805	3,417	2,925	3,032	2,541	2,642	2,661	2,891	3,158	3,078	3,300	35,390
Nordegg	617	482	460	229	161	120	114	184	159	279	379	399	3,583
Total	7,395	7,220	7,628	6,648	6,159	5,488	5,602	6,154	6,045	7,011	7,505	8,550	81,405

## Amount of Domestic Coal used by Colliery Railroads by areas during each month:

[illegible]

Amount of Sub-Bituminous Coal used by Colliery Railroads by areas during each month:

Coalspur .....	379	535	786	595	218	200	200	289	360	385	413	4,560
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## Amount of Bituminous Coal used by Colliery Railroads by areas during each month:

Cascade	48	45	42	36	30	30	30	42	48	40	27	54	472
Crowsnest	51	67	52	47	54	52	50	59	47	53	52	64	648
Total	99	112	94	83	84	82	80	101	95	93	79	118	1,120

## Amount of Bituminous Coal used making Briquettes:

Cascade	2,717	2,561	2,253	2,507	549	217	424	1,167	1,197	1,971	1,862	5,020	22,445
Nordeg	1,672	2,298	3,263	855	828	371	494	817	948	1,462	2,012	1,837	16,857
Total	4,389	4,859	5,516	3,362	1,377	588	918	1,984	2,145	3,433	3,874	6,857	39,302

## Amount of Bituminous Coal used making Coke:

Crowsnest	8,907	8,077	9,046	8,159	8,917	8,013	7,878	8,712	8,381	9,152	8,796	9,460	103,498
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Amount of Domestic Coal Put to Stock by areas during each month:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Ardley	.....	50	.....	.....	.....	.....	.....	40	20	365	690	25	20
Camrose	68	218	9	.....	.....	.....	34	.....	.....	.....	135	4	1,170
Carbon	.....	17	4	5	3	2	2	.....	5	5	134	.....	528
Champion	.....	14	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	177
Drumheller	1,342	1,075	255	341	75	5	70	866	519	780	1,820	665	14
Edmonton	20	185	.....	.....	.....	.....	.....	.....	.....	.....	1,572	233	7,608
Halcourt	371	356	110	96	65	5	5	588	227	220	273	300	2,790
Lethbridge	.....	.....	.....	.....	.....	.....	.....	75	10	.....	.....	.....	9
Pakowki	63	.....	.....	11	.....	.....	.....	.....	44	30	25	.....	75
Pembina	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	84
No Area	.....	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	99
Taber	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5
Tofield	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	35	35
Total	1,864	1,920	378	453	78	72	111	1,569	825	1,975	4,718	1,262	15,225

Amount of Sub-Bituminous Coal Put to Stock by areas during each month:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Coalspur	937	407	45	.....	.....	.....	95	85	187	140	420	542	2,858
Pekisko	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	40	.....	40
Pincher	228	166	42	.....	.....	.....	.....	23	23	.....	58	.....	46
Prairie Creek	.....	.....	.....	.....	14	.....	54	.....	.....	.....	15	.....	494
Saunders	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	83
Total	1,165	573	87	.....	14	.....	149	108	210	140	533	542	3,521

Amount of Bituminous Coal Put to Stock by areas during each month:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Cascade	324	705	245	447	470	315	453	396	268	789	322	582	5,316
Crowsnest	3,620	320	904	1,277	2,964	449	199	34	6,086	194	195	2,561	18,803
Nordeg	.....	.....	.....	.....	657	188	.....	387	562	.....	.....	.....	1,794
Total	3,944	1,025	1,149	1,724	4,091	952	652	817	6,916	983	517	3,143	25,913

Amount of Domestic Coal Put to Waste by areas during each month:

Ardley .....	28	25	1	1	1	1	1	2	2	5	6	4	53
Big Valley .....	1	2	10	9	42	4	75	40	11	235	220	12	27
Canrose .....	13	65	25	25	42	4	11	40	11	167	100	32	670
Carbon .....	68	41	127	49	42	20	13	48	72	318	433	269	500
Castor .....	271	257	67	36	24	7	5	13	25	62	55	37	1,919
Champion .....	39	320	68	7	25	2	3	16	1,024	4,552	3,639	565	438
Drumheller .....	350	61	28	4	14	3	3	2	2	58	29	40	10,566
Edmonton .....	34	61	28	4	14	3	3	2	2	58	29	40	256
Gleichen .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	37
Halcourt .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	15
Lethbridge .....	39	54	44	32	7	42	32	25	28	327	266	180	1,076
Milk River .....	.....	2	3	1	3	.....	3	4	.....	74	12	36	138
Pakan .....	18	10	1	47	.....	.....	.....	.....	.....	.....	.....	3	3
Pembina .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	162
Sexsmith .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	15
Sheerness .....	140	129	81	53	41	22	22	26	32	250	713	241	1,750
Taber .....	80	90	62	32	18	22	20	38	120	234	193	135	1,044
Tofield .....	63	58	20	30	.....	.....	.....	.....	14	20	.....	.....	205
Whitecourt .....	8	12	.....	.....	.....	.....	.....	.....	2	60	151	129	23
No Area .....	112	132	15	.....	.....	.....	.....	.....	.....	.....	.....	.....	601
Total .....	1,324	1,325	521	259	217	134	174	215	1,332	6,387	5,890	1,720	19,498

Amount of Sub-Bituminous Coal Put to Waste by areas during each month:

Coalspur .....	2,006	1,029	4,589	2,110	36	.....	19	32	1,343	1,128	1,221	1,421	14,934
Pekisko .....	16	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16
Pincher .....	34	29	16	18	20	2	13	14	20	55	59	50	330
Prairie Creek .....	266	206	36	.....	.....	.....	.....	.....	32	275	250	270	1,335
Total .....	2,322	1,264	4,641	2,128	56	2	32	46	1,395	1,458	1,530	1,741	16,615

Amount of Bituminous Coal Put to Waste by areas during each month:

Cascade .....	.....	.....	.....	5	.....	5	.....	.....	10	20	10	10	60
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Amount of Domestic Coal Lifted from Stock by areas during each month:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Ardley	75	68	353	66	10	119	123	20	.....	.....	110	.....	86
Camrose	70	206	280	116	33	935	808	34	.....	.....	200	195	1,070
Carbon	765	567	1,196	1,002	1,167	935	908	70	566	419	.....	1,120	722
Drumheller	401	144	984	835	.....	396	490	568	90	.....	.....	.....	8,815
Edmonton	.....	.....	.....	.....	.....	.....	.....	.....	28	.....	200	3	3,908
Halcourt	331	2,565	1,686	725	772	250	589	.....	588	139	.....	2,525	31
Lethbridge	.....	35	.....	11	.....	.....	.....	.....	.....	.....	.....	.....	10,231
Pakowki	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	139
Pembina	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	46
Tofield	.....	.....	.....	.....	110	.....	.....	.....	.....	44	14	36	110
No Area	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	94
Total	1,642	3,379	4,425	2,919	2,175	1,733	2,010	692	1,272	602	524	3,879	25,252

Amount of Sub-Bituminous Coal Lifted from Stock by areas each month:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Coalspur	169	120	400	130	180	350	84	255	105	227	140	135	2,295
Morley	150	.....	.....	.....	.....	.....	.....	40	.....	.....	.....	.....	150
Pekisko	.....	.....	.....	25	96	220	170	220	.....	.....	40	40	80
Prairie Creek	.....	.....	.....	.....	.....	3	11	54	.....	.....	.....	.....	771
Saunders	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	68
Total	319	120	400	155	276	573	265	569	105	227	180	175	3,364

Amount of Bituminous Coal Lifted from Stock by areas each month:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Cascade	296	299	690	245	2,507	470	315	453	395	268	789	323	7,050
Crownest	480	2,537	602	400	11	1,811	1,742	5,336	18	2,166	2,205	179	17,487
Nordegg	.....	.....	409	.....	.....	657	187	.....	387	562	.....	.....	2,202
Total	776	2,836	1,701	645	2,518	2,938	2,244	5,789	800	2,996	2,994	502	26,739

Amount of Domestic Coal Lifted from Waste by areas each month

	150	200	145	90	33	24	160	745
Camrose	.....	.....	.....	.....	.....	.....	.....	57
Carbon	.....	.....	.....	.....	.....	.....	.....	69
Edmonton	60	.....	.....	.....	.....	8	.....	255
Lethbridge	222	.....	.....	33	.....	.....	.....	871
Telford	.....	.....	.....	.....	277	250	100	23
No Area	.....	5	10	.....	.....	.....	8	.....
Total	372	205	155	123	277	282	168	2,020

Amount of Sub-Bituminous Coal Lifted from Waste by areas each month:

	30	25	25	15	.....	.....	10	105
Coalspur	.....	.....	.....	.....	.....	.....	.....	.....

Output and Number of Mines Producing

Kind of Coal	Under 1,000 tons		1,000 to 5,000 tons		5,000 to 10,000 tons		10,000 to 50,000 tons		50,000 to 100,000 tons		100,000 to 150,000 tons		150,000 to 200,000 tons		200,000 to 300,000 tons		Over 300,000 tons		Total	
	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output		
Domestic	125	50,053	72	143,640	15	106,622	36	818,442	14	949,783	2	217,965	1	166,758	.....	.....	.....	.....	265	2,453,263
Sub-Bituminous	8	3,311	3	4,327	.....	.....	6	190,595	1	63,362	2	227,317	.....	.....	.....	.....	.....	.....	20	488,912
Bituminous	2	303	3	5,888	.....	.....	1	14,808	1	70,456	1	143,431	4	692,369	4	1,015,688	1	344,907	17	2,281,850
Total	135	53,667	78	153,855	15	106,622	43	1,023,845	16	1,083,601	5	588,713	5	859,127	4	1,015,688	1	344,907	302	5,230,025

Number of men employed in the DOMESTIC FIELD as at December 31, 1938:

Areas	UNDERGROUND										ABOVE GROUND										TOTAL					
	Officials	Hand Cutters	Machine Cutters & Helpers	Machine Loaders	Chute Loaders	Horse H'g Employees	Mechanical H'g Emp's	Ventilation Employees	Road Makers	Timber Men	Pump Men	Other Employees	Total Underground	Adminis- tration	Foremen and Clerks	Screenmen and Loaders	Engine Men	Firemen	Machinists	Carpenters and Masons		Other Mechanics	Surface Haulage	All Other Employees	Total Above Ground	
Ardley	12	22	3	16		4						5	62		1	6	1	1			1				10	72
Big Valley	4	6	3			1						1	9	2										7	14	
Brooks	1	7				1						3	100	5	3	11	1	3					9	10	19	
Camrose	5	82				9						5	170	2	3	16	3	1				1	32	7	132	
Carbon	16	17	14	93		21			1			8	144	1	2	1	6		3			1	36	7	206	
Castor	36	97				3				3															154	
Champion	8	39	2	3			1						53									4		7	60	
Drumheller	105	34	198	1,125		196	66	10	83	48	2	151	2,018	12	48	200	12	7	9	7	14	6	94	409	2,427	
Edmonton	55	259	41	313		52	21	2	25	63	6	43	880	8	26	46	25	3	2	8	4	6	28	156	1,036	
Gleichen	8	47	8			3				2		14	82	1	2	3	1					1	5	13	95	
Halcourt	6	20											26												28	
Lethbridge	35	44	46	288		48	31	2	7	10	2	6	519	4	24	28	11	4	7	5	15	7	54	159	678	
Magrath	1	2											3												4	
Milk River	2	5											7	2	1								1	4	11	
Pakan	2	2											4		2	1							3	6	10	
Pakowki	4	6											10												10	
Pembina	4	33	1	4		5	1	1				2	51	1	6	3		3	1			1	2	12	63	
Redcliff	2	4	4	27		6			2	2		3	46		8	1		1	1			1	1	2	10	
Recherster	2	6											8			1								1	2	
Sexsmith	1												1										1	1	2	
Sheerness	6	11											17	8	6	2	2					2	20	38	55	
Taber	12	10	4	11		1						1	39	2	2	27	1				1	1	10	46	45	
Tofield	2	4											6		4										52	
Wetaskiwin	4	10										1	15												15	
Whitecourt	1	1				2							2												2	
No Area	3	14										5	22		2	2	1					1	1	7	29	
Total	337	778	324	1,880		349	120	15	119	128	10	248	4,308	48	126	357	75	16	23	20	35	35	245	980	5,288	

Number of men employed in the SUB-BITUMINOUS FIELD as at December 31, 1938:

Coalspur	13	105	18	18	16	15	2		10	2	1	200	11	18	64	18	15	8	5	12	25	81	257	457	
Monley	1				1						1	3											3	14	
Pekisko	5	4			1						1	11	1			2							3	3	
Fincher	2	2										4	2										2	6	
Prairie Creek	6	24	8	31	8	4	3	2	4	6	1	12	109	1	5	22	5	5	2	3	4	5	52	161	
Saunders	5	20	12	45		5	6		2	4	2	101	3	3	15	6	2	1	1		3	3	37	138	
Total	32	155	38	94	26	24	11	2	6	20	3	17	428	18	26	101	31	22	9	8	15	32	89	351	779

BITUMINOUS FIELD

Cascade .....	16	105	...	...	...	4	31	2	6	5	...	13	182	1	9	32	7	10	3	2	...	28	92	274	
Crownsnest .....	70	812	2	13	135	42	118	19	24	122	7	89	1,453	12	51	129	20	23	20	12	37	34	112	450	
Mountain Park .....	21	255	10	...	27	36	34	16	3	55	5	32	494	2	19	66	21	25	14	15	6	10	109	287	
Nordegg .....	7	92	...	...	...	20	14	1	13	11	1	...	159	2	12	7	4	1	2	4	7	2	34	75	
Total .....	114	1,264	12	13	162	102	197	38	46	193	13	134	2,288	17	91	234	52	59	39	33	50	46	283	904	3,192

SUMMARY

Domestic .....	337	778	324	1,880	...	349	120	15	119	128	10	248	4,308	48	126	357	75	16	23	20	35	35	245	980	5,288
Sub-Bituminous .....	32	155	38	94	...	26	24	11	2	6	20	3	17	428	18	26	101	31	22	9	8	15	32	89	351
Bituminous .....	114	1,264	12	13	162	102	197	38	46	193	13	134	2,288	17	91	234	52	59	39	33	50	46	283	904	3,192
Total .....	483	2,197	374	1,987	188	475	328	55	171	341	26	399	7,024	83	243	692	158	97	71	61	100	113	617	2,235	9,259



## THE MINES BRANCH

Men employed above and below ground in the DOMESTIC FIELD by areas each month:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Monthly Average
Ardley	77	67	45	29	22	24	25	31	33	70	76	72	48
Big Valley	14	12	10	7	7	2	5	2	10	12	15	14	8
Brooks	14	11	11	8	7	7	7	7	15	32	33	19	14
Canrose	133	121	64	56	40	47	52	65	82	98	148	132	86
Carbon	215	192	162	97	80	115	112	118	137	197	213	206	154
Castor	121	105	59	26	19	16	32	11	60	155	188	154	81
Champion	59	58	43	42	36	36	36	34	48	74	69	60	50
Drumheller	2,517	2,417	1,619	744	692	568	528	1,355	1,802	2,320	2,437	2,427	1,619
Edmonton	975	972	667	495	388	382	380	433	524	867	1,044	1,036	680
Gleichen	28	21	19	42	12	93	32	50	30	169	121	95	59
Halcourt	33	22	11	5	2	4	2	13	18	24	47	28	19
Lethbridge	679	671	537	383	325	336	417	569	610	673	688	678	547
Magrath	7	7	7	6	6	6	2	2	2	3	4	4	4
Milk River	10	10	10	8	8	7	7	7	13	33	33	11	13
Pakan	4	4	.....	.....	.....	.....	.....	.....	.....	5	5	10	5
Pakowki	10	10	6	7	5	8	6	7	9	10	10	10	8
Pembina	67	67	57	50	44	42	54	46	48	57	63	63	55
Redcliff	57	56	42	29	28	26	12	47	30	54	63	59	42
Rochester	4	4	4	4	3	3	4	2	2	6	8	10	4
Sheerness	43	43	37	26	34	29	43	23	34	53	52	55	39
Taber	39	41	22	27	17	21	24	20	41	60	52	45	34
Tofield	47	44	39	39	60	63	60	66	42	48	57	52	51
Wetaskiwin	9	9	3	4	4	5	5	5	7	10	14	15	7
Whitecourt	1	1	.....	.....	.....	.....	.....	.....	.....	.....	2	2	2
Sexsmith	28	21	11	2	.....	4	3	3	14	29	35	29	16
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	2	2
Total	5,191	4,986	3,485	2,132	1,832	1,844	1,848	2,946	3,611	5,059	5,479	5,288	3,647

Men employed above and below ground in the SUB-BITUMINOUS FIELD by areas each month:

Coalspur .....	437	427	393	279	282	284	344	313	389	423	460	457	374
Morley .....	1	10	11	11	9	9	7	14	9	15	16	3	3
Pekisko .....	19	5	4	4	4	2	4	4	5	7	7	14	12
Pincher Creek .....	5	143	131	120	122	116	117	126	136	145	158	161	135
Prairie Creek .....	147	121	108	30	82	63	81	93	117	138	139	138	104
Saunders .....	132												
Total .....	741	706	647	444	499	474	553	550	656	728	783	779	633

Men employed above and below ground in the BITUMINOUS FIELD by areas each month:

Cascade .....	264	266	271	272	268	269	275	273	268	273	249	274	269
Crownst .....	1,895	1,896	1,883	1,833	1,579	1,895	1,908	1,916	1,907	1,912	1,921	1,903	1,875
Mountain Park .....	713	725	751	712	762	712	676	713	700	790	806	781	740
Nordeg .....	250	250	268	255	251	243	235	246	250	245	241	234	247
Total .....	3,122	3,137	3,173	3,165	2,860	3,119	3,094	3,148	3,125	3,220	3,217	3,192	3,131

Men employed above and below ground in the DOMESTIC, SUB-BITUMINOUS and BITUMINOUS FIELDS by areas each month:

Domestic .....	5,191	4,986	3,485	2,132	1,832	1,844	1,848	2,946	3,611	5,059	5,479	5,288	3,647
Sub-Bituminous .....	741	706	647	444	499	474	553	550	656	728	783	779	633
Bituminous .....	3,122	3,137	3,173	3,165	2,860	3,119	3,094	3,148	3,125	3,220	3,217	3,192	3,131
Total .....	9,054	8,829	7,305	5,741	5,191	5,437	5,495	6,644	7,392	9,007	9,479	9,259	7,411

## THE MINES BRANCH

## PER CAPITA PRODUCTION OF MINES IN THE PROVINCE

Year	Gross tons of coal mined	Total average No. of men employed	Tons of coal mined per man employed	Average No. of men employed under-ground	Tons of coal mined per man employed under-ground
1906	1,385,000	2,800	494	2,000	692
1907	1,834,745	3,600	509	2,700	679
1908	1,845,000	3,780	488	2,681	688
1909	2,174,329	5,207	417	3,893	566
1910	3,036,757	5,818	504	4,090	742
1911	1,694,564	6,689	253	4,517	375
1912	3,446,349	6,661	517	4,861	708
1913	4,306,346	8,068	533	5,837	737
1914	3,821,739	8,170	467	6,052	631
1915	3,434,891	6,445	532	4,493	764
1916	4,648,604	7,570	614	5,536	839
1917	4,863,414	8,310	595	6,047	804
1918	6,148,620	8,818	697	6,141	1,001
1919	5,022,412	7,573	663	5,150	958
1920	6,908,923	9,688	712	6,551	1,055
1921	5,937,195	10,018	592	7,203	824
1922	5,976,432	8,757	683	6,154	971
1923	6,866,923	9,927	687	7,249	893
1924	5,202,713	7,317	711	5,299	982
1925	5,883,394	8,774	670	6,498	834
1926	6,508,908	8,763	743	6,569	991
1927	6,936,780	9,016	768	6,681	970
1928	7,334,179	9,496	772	6,625	1,107
1929	7,147,250	9,572	747	7,115	1,004
1930	5,755,911	8,889	648	6,607	871
1931	4,563,309	8,070	577	5,969	701
1932	4,867,984	7,837	621	5,772	844
1933	4,714,784	8,042	586	5,937	794
1934	4,748,848	7,863	604	5,809	744
1935	5,462,973	7,800	700	5,644	969
1936	5,696,375	8,110	702	5,940	959
1937	5,551,682	7,836	708	5,806	956
1938	5,230,025	7,411	706	5,427	965

## PER CAPITA PRODUCTION OF MINES IN THE DOMESTIC COAL FIELD

1910	878,011	2,307	380	1,676	524
1911	964,700	3,548	271	2,488	391
1912	1,341,389	2,980	450	2,283	587
1913	1,763,225	4,017	438	2,929	601
1914	1,697,401	4,219	402	3,190	532
1915	1,682,922	3,181	529	2,210	761
1916	2,172,801	4,132	525	3,137	692
1917	2,537,829	4,701	539	3,489	727
1918	3,035,061	4,896	619	3,420	887
1919	2,611,009	4,226	617	2,953	884
1920	3,359,308	5,173	647	3,723	902
1921	2,943,141	5,601	525	4,256	691
1922	3,086,669	4,981	620	3,752	823
1923	3,161,741	4,969	636	3,765	812
1924	3,096,660	4,543	681	3,447	898
1925	3,156,359	4,874	647	3,750	808
1926	3,160,029	4,798	658	3,714	816
1927	3,357,171	4,663	720	3,603	891
1928	3,378,200	4,810	702	3,700	873
1929	3,385,749	4,944	685	3,813	880
1930	2,874,090	4,822	596	3,756	765
1931	2,245,563	4,400	510	3,419	628
1932	2,574,785	4,548	566	3,539	728
1933	2,434,047	4,480	543	3,487	698
1934	2,295,566	4,289	535	3,370	644
1935—Stp. pit	130,084	96	1,355	.....	.....
B. Ground	2,517,828	3,927	658	3,059	823
1936—Stp. pit	80,111	107	749	.....	.....
B. Ground	2,761,120	4,112	671	3,243	851
1937—Stp. pit	80,116	79	1,014	.....	.....
B. Ground	2,551,034	3,148	810	3,162	832
1938—Stp. pit	72,829	74	945	.....	.....
B. Ground	2,380,434	3,573	667	2,846	801*

\*See note on page over.

## PER CAPITA PRODUCTION OF MINES IN THE SUB-BITUMINOUS COAL FIELD

Year	Gross tons of coal mined	Total average No. of men employed	Tons of coal mined per man employed	Average No. of men employed under-ground	Tons of coal mined per man employed under-ground
1922—Stp. pit .....	367,514	217	1,692	.....	.....
B. Ground .....	179,550	403	445	277	648
1923—Stp. pit .....	288,467	190	1,513	.....	.....
B. Ground .....	174,994	354	494	260	673
1924—Stp. pit .....	369,724	211	1,752	.....	.....
B. Ground .....	222,222	393	565	278	799
1925—Stp. pit .....	335,993	162	2,074	.....	.....
B. Ground .....	245,842	461	533	326	754
1926—Stp. pit .....	258,964	147	1,761	.....	.....
B. Ground .....	231,407	443	545	305	758
1927—Stp. pit .....	304,584	193	1,583	.....	.....
B. Ground .....	290,606	478	608	321	905
1928—Stp. pit .....	394,682	179	2,205	.....	.....
B. Ground .....	345,810	645	536	457	756
1929—Stp. pit .....	319,764	163	1,962	.....	.....
B. Ground .....	348,344	585	595	402	866
1930—Stp. pit .....	304,144	157	1,937	.....	.....
B. Ground .....	299,187	569	526	390	767
1931—Stp. pit .....	280,251	161	1,803	.....	.....
B. Ground .....	191,138	486	393	336	569
1932—Stp. pit .....	348,266	177	1,868	.....	.....
B. Ground .....	211,213	491	430	341	619
1933—Stp. pit .....	309,365	170	1,820	.....	.....
B. Ground .....	244,776	516	474	370	661
1934—Stp. pit .....	302,054	158	1,912	.....	.....
B. Ground .....	235,488	482	489	326	722
1935—Stp. pit .....	287,970	180	1,600	.....	.....
B. Ground .....	278,466	501	830	337	826
1936—Stp. pit .....	263,899	175	1,508	.....	.....
B. Ground .....	302,587	532	569	360	841
1937—Stp. pit .....	229,747	149	1,542	.....	.....
B. Ground .....	276,782	504	549	348	795
1938—Stp. pit .....	227,317	148	1,536	.....	.....
B. Ground .....	261,595	633	772	327	800*

\*See note on page over.

## PER CAPITA PRODUCTION OF MINES IN THE BITUMINOUS COAL FIELD

1910 .....	1,896,961	2,981	636	2,076	914
1911 .....	649,745	2,645	246	1,820	357
1912 .....	1,926,371	3,243	594	2,353	818
1913 .....	2,374,401	3,562	666	2,645	897
1914 .....	1,953,367	3,529	553	2,632	742
1915 .....	1,626,237	2,921	557	2,103	773
1916 .....	2,335,259	3,142	743	2,258	1,034
1917 .....	2,206,868	3,335	661	2,429	909
1918 .....	2,982,334	3,636	820	2,597	1,109
1919 .....	2,325,787	3,118	745	2,100	1,108
1920 .....	3,410,021	4,228	809	2,711	1,202
1921 .....	2,897,380	4,133	701	2,820	1,026
1922 .....	2,214,273	3,034	729	2,084	1,062
1923 .....	3,241,614	4,345	746	3,215	1,008
1924 .....	1,515,107	2,171	698	1,574	966
1925 .....	2,145,200	3,277	654	2,422	885
1926 .....	2,858,508	3,375	847	2,550	1,121
1927 .....	2,984,419	3,682	810	2,757	1,082
1928 .....	3,215,481	3,862	832	2,468	1,302
1929 .....	3,093,393	3,880	797	2,898	1,077
1930 .....	2,278,490	3,341	682	2,461	926
1931 .....	1,846,357	3,023	611	2,214	834
1932 .....	1,733,720	2,621	660	1,892	916
1933 .....	1,726,596	2,876	600	2,080	830
1934 .....	1,915,740	2,934	653	2,113	907
1935 .....	2,248,625	3,096	726	2,248	1,000
1936 .....	2,288,658	3,184	719	2,337	979
1937 .....	2,414,003	3,156	765	2,295	1,052
1938 .....	2,287,850	3,131	731	2,254	1,015



## THE MINES BRANCH

## PER CAPITA PRODUCTION OF MINES IN THE ANTHRACITE COAL FIELD.

Year	Gross tons of coal mined	Total average No. of men employed	Tons of coal mined per man employed	Average No. of men employed underground	Tons of coal mined per man employed underground
1910 .....	261,785	530	493	338	774
1911 .....	80,119	500	160	209	383
1912 .....	178,589	438	407	225	793
1913 .....	168,720	489	345	263	641
1914 .....	170,971	422	405	230	743
1915 .....	125,732	343	366	180	698
1916 .....	140,544	296	474	141	996
1917 .....	118,717	284	418	129	920
1918 .....	131,225	286	458	124	1,058
1919 .....	85,616	229	374	95	901
1920 .....	130,594	287	455	117	1,116
1921 .....	96,674	284	341	127	761
1922 .....	40,417	112	361	41	986
1923 .....	107	69	1	9	12

NOTE.—The table showing the number of men employed in the Anthracite Coal Field, includes employees at the briquetting plant. There has been no anthracite coal produced since 1923.

During the year 1909 a strike affecting all the larger mines in the Province, lasted for a period of three months.

During the year 1911 a strike affecting all the larger mines in the Province, lasted for a period of eight months.

During the year 1917 a strike affecting all the larger mines in the Province, lasted for a period of three months.

During the year 1919 a strike affecting all the larger mines in the Province, lasted for a period of three months.

During the year 1922 a strike affecting all the larger mines in the Province, lasted for a period of five months.

During the year 1924 a strike affecting all the larger mines in the Province, lasted for a period of six and one-half months.

NOTE.—\*Calculating the total per capita production for men employed underground, the tonnage mined from stripping pits was deducted and only the tonnage produced from mines was used.

It will also be noted that the tonnage used in the above and following tables does not include tonnage extracted under permit.

PER CAPITA PRODUCTION OF MINES BY AREAS:  
DOMESTIC COAL FIELD

Area	Gross tons of coal mined	Total Average No. of men employed	Tons of coal mined per man employed	Average No. of men employed underground	Tons of coal mined per man employed underground
Ardley .....	21,420	48	446	39	526
Big Valley .....	2,069	8	259	7	295
Brooks .....	9,665	14	690	5	1,933
Camrose .....	52,662	86	612	64	823
Carbon .....	92,846	154	603	124	749
Castor .....	39,737	81	490	73	544
Champion .....	16,142	50	323	44	362
Drumheller .....	1,168,348	1,619	722	1,301	898
Edmonton .....	515,103	680	758	562	917
Gleichen .....	25,239	59	428	49	515
Halcourt .....	3,355	19	177	17	197
Lethbridge .....	342,113	547	625	407	841
Magrath .....	541	4	135	3	180
Milk River .....	3,701	13	285	7	529
Pakan .....	276	5	55	2	138
Pakowki .....	1,359	8	170	8	170
Pembina .....	30,267	55	550	43	704
Redcliff .....	27,382	42	652	32	856
Rochester .....	729	4	182	2	365
Sexsmith .....	80	2	40	1	80
Sheerness (Stripping) .....	31,300	28	1,118	.....	.....
Sheerness (Underground) .....	4,639	11	422	9	515
Taber .....	12,274	34	361	27	455
Tofield (Stripping) .....	41,519	46	903	.....	.....
Tofield (Underground) .....	2,694	5	539	3	898
Wetaskiwin .....	2,349	7	335	6	392
Whitecourt .....	217	2	109	1	217
No Area .....	5,237	16	327	10	524
Total .....	2,453,263	3,647	673	2,846	801*

## SUB-BITUMINOUS COAL FIELD

Coalspur (Stripping) .....	227,317	148	1,536	.....	.....
Coalspur (Underground) .....	124,110	226	549	146	850
Morley .....	61	3	20	2	31
Pekisko .....	5,080	12	423	10	508
Pincher .....	1,413	5	283	2	707
Prairie Creek .....	91,189	135	683	92	991
Saunders .....	39,742	104	375	75	530
Total .....	488,912	633	772	327	800*

\*This figure arrived at by deducting the tonnage from stripping pits from gross tonnage mined and dividing the product by the number of men employed underground.

## BITUMINOUS COAL FIELD

Cascade .....	170,039	269	632	184	924
Crowsnest .....	1,275,004	1,875	680	1,432	890
Mountain Park .....	688,449	740	930	469	1,468
Nordegg .....	154,358	247	625	169	913
Total .....	2,287,850	3,131	731	2,254	1,015

## THE MINES BRANCH

Number of days on which Coal was drawn in the DOMESTIC FIELD by areas during each month:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Ardley	18.00	16.67	8.00	3.70	4.67	4.00	4.33	4.33	6.00	16.91	20.54	14.33	121.48
Big Valley	13.67	18.80	9.60	4.50	10.00	12.00	9.00	13.00	9.33	16.75	18.00	14.00	130.65
Brooks	25.00	24.00	15.50	4.50	11.67	23.00	19.00	21.00	26.00	20.67	20.67	26.00	247.51
Camrose	17.55	15.63	16.00	12.17	17.30	13.25	15.67	13.00	14.60	21.57	21.80	18.33	196.87
Carbon	15.28	16.53	11.44	8.80	8.57	10.20	7.82	12.60	14.00	21.25	20.29	16.25	163.03
Castor	15.15	13.31	7.77	8.43	10.27	7.22	6.25	9.53	9.91	18.71	22.05	17.21	145.81
Champion	15.80	11.00	10.70	8.70	8.20	7.89	6.78	13.33	19.00	24.75	21.38	18.00	165.53
Drumheller	13.44	12.30	8.22	7.61	8.65	7.44	6.69	12.36	12.11	19.50	19.71	13.88	141.91
Edmonton	18.94	18.58	14.51	15.34	13.50	12.44	11.52	11.08	13.47	22.31	21.46	18.33	191.48
Gleichen	23.25	14.67	13.00	14.80	11.50	11.17	8.00	16.43	13.80	19.89	23.43	18.86	188.80
Halcourt	24.86	21.00	18.00	16.00	9.53	6.00	9.25	18.50	15.33	15.33	19.40	19.17	167.51
Lethbridge	14.89	14.67	12.06	9.64	9.53	10.17	11.00	18.23	15.60	20.56	20.13	18.38	174.86
Magrath	15.50	18.50	13.50	14.00	7.50	14.00	11.00	20.00	7.00	17.00	24.50	22.00	184.50
Milk River	13.00	9.50	6.33	8.50	8.50	9.30	7.29	9.67	18.33	20.75	16.75	12.00	141.92
Pakan	13.00	19.00	5.00	4.00	5.00	4.00	7.00	17.00	13.33	24.25	20.75	14.00	175.00
Pakowki	6.00	6.25	7.33	9.33	4.00	2.00	7.40	6.50	12.50	16.00	17.33	12.50	122.08
Pembina	13.60	12.00	11.50	7.50	8.00	4.00	6.00	8.50	10.00	25.00	25.00	17.50	130.49
Redcliff	13.00	16.00	1.00	1.00	7.13	7.37	7.75	11.13	13.00	5.00	20.00	24.00	132.00
Rochester	14.00	15.00	9.13	9.44	7.13	7.37	7.75	11.13	13.00	18.20	22.60	15.83	152.21
Sheerness	14.63	16.00	10.20	7.54	8.85	8.67	9.13	12.25	17.11	21.25	18.45	13.71	155.76
Taber	13.70	14.90	10.20	17.50	11.33	15.00	15.00	25.00	15.67	18.00	18.00	17.50	207.50
Tofield	18.75	19.25	16.00	2.00	3.00	9.50	7.00	5.50	10.00	19.67	15.67	13.00	125.84
Wetaskiwin	20.00	17.50	3.00	2.00	3.00	6.00	.....	.....	8.00	18.33	26.00	20.00	62.00
Whitecourt	.....	16.00	6.00	.....	.....	.....	.....	.....	.....	.....	18.50	15.00	96.90
No Area	17.40	13.67	.....	.....	.....	.....	.....	.....	.....	.....	25.00	25.00	50.00
Sexsmith	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Average Total	16.27	15.19	10.16	9.74	8.86	9.46	9.18	12.94	13.51	18.88	20.59	17.09	161.87

Number of days on which Coal was drawn in the SUB-BITUMINOUS FIELD by areas during each month:

Coalspur .....	18.80	18.20	18.00	12.00	8.30	3.33	6.25	7.25	9.60	11.30	15.33	17.33	145.69
Morley .....	14.50	9.80	6.33	8.33	9.00	8.33	14.67	10.20	11.00	13.40	8.00	20.00	28.00
Pekisko .....	16.50	17.50	14.50	9.00	5.50	4.00	7.00	8.50	16.00	18.00	16.60	16.20	138.36
Pincher .....	24.50	18.00	18.00	8.00	10.00	14.00	13.00	14.00	18.50	23.00	18.00	21.50	156.00
Prairie Creek .....	13.00	12.00	12.50	3.00	4.00	2.00	2.00	6.00	10.50	19.33	23.50	20.00	204.50
Saunders .....											19.00	16.33	119.66
Average Total .....	17.46	15.10	13.87	8.07	7.36	6.33	8.58	9.19	13.12	17.01	16.74	18.56	151.39

Number of days on which Coal was drawn in the BITUMINOUS FIELD by areas during each month:

Cascade .....	20.00	19.50	19.50	18.50	10.00	16.66	6.00	17.00	20.00	19.00	17.00	21.50	204.66
Crownest .....	13.00	13.00	13.29	12.56	13.78	14.67	13.64	18.67	13.60	15.00	15.00	16.39	172.60
Mountain Park .....	17.50	19.75	22.25	16.25	16.00	12.63	18.25	15.25	15.75	23.75	19.88	23.00	220.26
Nordegg .....	13.00	19.00	27.00	6.00	7.00	4.00	4.00	7.00	7.00	9.00	15.00	12.00	130.00
Average Total .....	15.88	17.81	20.51	13.33	11.70	11.99	10.47	14.48	14.09	16.69	16.72	18.22	181.89

Number of days on which Coal was drawn each month:

Domestic .....	16.27	15.19	10.16	9.74	8.86	9.46	9.18	12.94	13.51	18.88	20.59	17.09	161.87
Sub-Bituminous .....	17.46	15.10	13.87	8.07	7.36	6.33	8.58	9.19	13.12	17.01	16.74	18.56	151.39
Bituminous .....	15.88	17.81	20.51	13.33	11.70	11.99	10.47	14.48	14.09	16.69	16.72	18.22	181.89
Average Total .....	16.54	16.03	14.85	10.38	9.31	9.26	9.41	12.20	13.57	17.53	18.02	17.96	165.06

## THE MINES BRANCH

Total number of shifts worked above and below ground by areas during each month for the six months ending June 30, 1938:

## DOMESTIC FIELD

Areas	January		February		March		April		May		June		Total Jan. to June	
	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground
Ardley	330	1,043	297	759	139	331	89	131	83	153	96	175	1,034	2,592
Big Valley	167	139	39	151	27	82	14	40	5	15	4	20	156	447
Brooks	165	132	147	83	119	51	116	38	92	34	59	44	698	382
Camrose	580	1,693	523	1,509	296	821	279	626	189	450	179	546	2,046	5,685
Carbon	731	2,364	810	2,598	591	1,519	227	916	224	662	247	769	2,830	9,028
Castor	513	1,283	297	1,064	108	313	85	167	52	144	37	101	1,092	3,072
Champion	151	587	118	667	87	305	81	221	81	195	55	200	573	2,275
Drumheller	7,783	29,681	7,124	28,447	4,203	11,885	3,287	6,317	3,037	6,354	2,793	4,839	28,227	87,423
Edmonton	3,104	14,426	3,098	14,896	2,642	9,633	1,796	6,258	1,474	5,308	1,471	4,463	13,585	54,984
Gleichen	114	404	86	285	54	122	651	117	41	73	75	290	1,021	1,291
Halcourt	229	486	72	294	29	103	24	70	.....	.....	64	6	418	939
Lethbridge	3,013	6,976	2,802	7,138	2,306	3,482	2,114	2,587	1,725	2,595	2,127	29,48	14,087	25,726
Magrath	31	49	27	60	27	42	28	28	15	15	14	14	142	208
Milk River	58	47	26	30	26	33	24	12	16	15	45	18	195	135
Pakan	13	39	8	24	.....	.....	.....	.....	.....	.....	.....	.....	21	63
Pakowki	8	34	6	26	1	24	6	14	2	5	4	10	27	113
Pembina	308	601	324	621	282	428	280	340	179	153	151	63	1,524	2,206
Redcliff	161	547	209	675	104	331	47	145	50	150	26	72	597	1,920
Rochester	14	42	15	45	16	5	.....	.....	18	.....	14	.....	77	92
Sheerness	318	137	483	143	399	34	287	109	279	.....	392	20	2,158	470
Taber	126	354	125	298	45	135	82	173	43	95	131	95	552	1,150
Tofield	782	70	745	64	818	135	806	.....	1,370	4	1,602	3	6,123	1,145
Wetaskiwin	40	140	25	135	1	8	.....	13	2	28	16	41	84	365
Whitecourt	10	4	12	.....	.....	.....	45	5	.....	.....	20	.....	14	22
No Area	207	367	136	255	46	76	.....	.....	.....	.....	.....	.....	454	703
Total	18,856	61,851	17,546	60,319	12,366	29,767	10,368	18,327	8,977	16,475	9,622	14,737	77,735	201,476



Total number of shifts worked above and below ground by areas during each month for the six months ending December 31, 1938:  
DOMESTIC FIELD

Areas	July		August		September		October		November		December		Total to Dec.		Total for Year 1938	
	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground
Ardley	71	169	150	242	164	322	326	1,047	390	1,213	325	671	1,426	3,664	2,460	6,256
Big Valley	46	39	5	25	22	68	35	151	47	238	56	139	170	647	326	1,094
Brooks	236	632	117	58	171	119	353	245	477	293	192	171	1,356	925	2,054	1,037
Camrose	280	703	367	945	421	804	450	1,553	758	2,603	678	1,845	3,810	8,382	4,856	14,067
Carbon	117	147	111	168	354	1,399	900	3,252	1,017	3,891	704	2,460	2,817	13,073	6,647	22,101
Castor	73	217	109	289	280	362	428	2,220	538	3,102	522	1,918	1,996	8,038	3,088	11,110
Champion	2,464	4,182	4,881	14,262	5,666	17,837	9,113	1,263	178	1,175	155	814	882	4,212	1,455	6,487
Drumheller	1,462	3,891	1,544	4,248	1,930	5,845	3,057	37,432	9,392	41,939	7,555	29,934	39,071	145,586	67,298	233,009
Edmonton	73	304	122	569	97	314	678	13,936	3,646	17,423	3,338	14,885	14,977	60,228	28,562	115,212
Gleichen	6	44	30	133	65	212	71	2,389	333	2,429	327	1,696	1,630	7,701	2,651	8,992
Halcourt	2,301	3,200	3,093	7,079	3,231	7,292	3,875	11,131	3,882	10,793	3,238	8,076	19,620	47,571	33,707	73,297
Lethbridge	11	11	20	20	7	6	13	32	24	74	22	48	97	191	239	399
Magrath	26	21	37	53	45	131	603	175	452	118	58	55	1,221	553	1,416	708
Milk River	.....	.....	.....	.....	.....	.....	26	124	26	124	72	64	124	64	145	127
Pakan	.....	.....	.....	.....	.....	.....	26	202	26	196	34	66	169	583	196	696
Pakowki	2	12	27	54	27	53	290	567	309	732	287	572	1,611	2,948	3,135	5,154
Penbina	224	396	246	299	255	382	290	1,048	334	1,078	206	686	1,009	3,347	1,606	5,267
Redcliff	18	54	79	225	80	256	292	1,048	334	1,078	206	686	1,009	3,347	1,606	5,267
Rochester	5	12	25	.....	25	.....	11	.....	40	120	48	125	172	268	249	360
Sexsmith	.....	.....	.....	.....	.....	.....	.....	.....	25	25	25	25	50	50	50	50
Sheerness	539	57	338	49	318	149	228	739	1,675	222	1,424	238	4,872	943	7,030	1,413
Taber	132	121	57	147	203	292	306	739	206	579	202	413	1,106	2,291	1,658	3,441
Tofield	1,529	4	1,630	43	1,028	181	893	181	995	140	920	65	6,995	400	13,118	545
Wetaskiwin	.....	.....	.....	.....	15	81	25	148	25	155	52	180	149	658	1,023	233
Whitcourt	.....	.....	.....	.....	.....	.....	.....	.....	10	42	10	10	20	52	34	74
Whitecourt	.....	.....	.....	.....	140	137	153	290	184	531	105	303	616	1,316	1,070	2,019
Total	9,643	14,296	13,313	30,259	14,872	36,715	22,766	78,556	25,174	89,878	20,652	65,881	106,420	315,585	184,155	517,061

## SUB-BITUMINOUS FIELD

Areas	January		February		March		April		May		June		Total Jan. to June	
	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground
Coalspur .....	6,025	4,046	6,068	3,530	7,723	1,991	4,652	715	4,573	543	5,109	386	34,150	11,211
Morley .....	10	230	30	105	30	84	36	63	18	53	39	53	10	588
Pekisko .....	94	38	30	59	29	18	11	139	11	4	4	4	247	179
Pincher .....	38	58	18	29	18	11	11	139	11	4	4	4	247	179
Prairie Creek .....	1,129	2,564	916	1,893	944	1,978	634	1,204	772	1,427	784	1,908	5,179	10,974
Saunders .....	569	1,433	475	1,166	404	1,018	157	125	279	398	183	134	2,067	4,274
Total .....	7,865	8,331	7,528	6,753	9,130	5,100	5,497	2,125	5,653	2,432	6,119	2,485	41,792	27,226

## BITUMINOUS FIELD

Areas	January		February		March		April		May		June		Total Jan. to June	
	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground
Cascade .....	1,823	3,389	1,681	3,172	1,761	3,124	1,737	2,868	1,724	2,504	1,767	2,602	10,493	17,659
Crowsnest .....	7,960	19,837	8,542	21,645	8,468	20,934	8,171	19,478	8,453	21,109	8,254	21,836	49,848	124,839
Mountain Park .....	5,578	9,312	5,259	10,933	6,343	12,875	5,226	10,467	5,031	11,011	5,061	8,471	32,498	63,069
Nordegg .....	1,920	2,391	1,848	3,370	2,359	4,621	1,349	1,346	1,218	1,367	1,045	679	9,739	13,774
Total .....	17,281	34,929	17,330	39,120	18,931	41,554	16,483	34,159	16,426	35,991	16,127	33,588	102,578	219,341

## TOTAL DOMESTIC, SUB-BITUMINOUS AND BITUMINOUS FIELDS

Areas	January		February		March		April		May		June		Total Jan. to June	
	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground
Domestic .....	18,856	61,851	17,546	60,319	12,366	29,767	10,368	18,327	8,977	16,475	9,602	14,737	77,735	201,476
Sub-Bituminous .....	7,965	8,331	7,528	6,753	9,130	5,100	5,497	2,125	5,653	2,432	6,119	2,485	41,792	27,226
Bituminous .....	17,281	34,929	17,330	39,120	18,931	41,554	16,483	34,159	16,426	35,991	16,127	33,588	102,578	219,341
Total .....	44,002	105,111	42,404	106,192	40,427	76,421	32,348	54,611	31,056	54,898	31,848	50,810	222,105	448,043

## SUB-BITUMINOUS FIELD

Areas	July		August		September		October		November		December		Total July to Dec.		Total for Year 1938	
	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground
Coalspur .....	5,102	1,312	3,042	1,756	4,527	2,375	5,848	2,950	5,864	3,714	5,953	3,676	30,336	15,783	64,486	26,994
Morley .....	38	81	54	103	44	65	69	161	77	17	20	17	23	57	33	57
Pekisko .....	14	17	17	17	42	39	43	83	40	222	86	162	368	794	615	1,382
Pincher .....	727	1,716	839	1,974	931	2,092	1,133	2,480	1,226	100	48	96	204	349	343	528
Prairie Creek .....	125	185	283	660	533	1,388	780	2,177	738	2,508	1,205	2,119	6,061	12,889	11,240	23,863
Saunders .....										2,124	636	1,959	3,095	8,493	5,162	12,767
Total .....	6,006	3,308	4,235	4,510	6,077	5,959	7,873	7,851	7,948	8,685	7,948	8,052	40,087	38,365	81,879	65,591

## BITUMINOUS FIELD

Areas	July		August		September		October		November		December		Total July to Dec.		Total for Year 1938	
	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground
Cascade .....	1,761	2,411	1,963	2,991	1,979	3,225	1,891	2,821	1,566	1,936	1,934	3,597	11,094	16,981	21,587	34,640
Crowsnest .....	8,179	19,588	12,640	22,289	8,190	20,094	8,491	20,228	8,863	22,005	8,830	23,098	55,213	127,302	105,061	252,141
Mountain Park .....	5,330	9,516	5,813	10,265	5,820	9,412	5,950	11,568	5,461	11,397	6,840	11,881	35,214	64,039	67,712	127,108
Nordegg .....	910	949	1,395	1,370	1,298	1,471	1,422	1,749	1,449	2,576	1,687	2,131	8,161	10,246	17,900	24,020
Total .....	16,180	32,464	21,811	36,915	17,287	34,202	17,754	36,366	17,339	37,914	19,311	40,707	109,682	218,568	212,260	437,909

## TOTAL DOMESTIC, SUB-BITUMINOUS AND BITUMINOUS COAL FIELDS

Areas	July		August		September		October		November		December		Total July to Dec.		Total for Year 1938	
	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground
Domestic .....	9,636	14,293	13,313	30,260	14,872	36,715	22,766	78,556	25,174	89,878	20,652	65,881	106,420	315,585	184,155	517,061
Sub-Bituminous .....	6,006	3,308	4,235	4,510	6,077	5,959	7,873	7,851	7,948	8,685	7,948	8,052	40,087	38,365	81,879	65,591
Bituminous .....	16,180	32,464	21,811	36,915	17,287	34,202	17,754	36,366	17,339	37,914	19,311	40,707	109,682	218,568	212,260	437,909
Total .....	31,822	50,065	39,359	71,685	38,236	76,876	48,393	122,773	50,461	136,477	47,911	114,640	256,189	572,518	478,294	1,020,561

## THE MINES BRANCH

AMOUNT OF MINE TIMBER USED DURING THE YEAR:  
DOMESTIC COAL FIELD

Area	Round Timber, linear feet	Lumber, B.M. feet	Ties, linear feet	Lagging, linear feet	Slabs, cords
Ardley .....	52,525	.....	.....	.....	.....
Big Valley .....	15,735	.....	.....	.....	.....
Brooks .....	23,884	.....	.....	.....	.....
Camrose .....	256,020	.....	.....	.....	.....
Carbon .....	497,329	.....	.....	.....	.....
Castor .....	121,440	1,200	.....	.....	.....
Champion .....	87,656	920	.....	.....	.....
Drumheller .....	4,246,244	.....	47,304	.....	29
Edmonton .....	2,691,339	.....	16,170	.....	144½
Gleichen .....	59,900	.....	.....	.....	.....
Halcourt .....	20,096	.....	.....	.....	.....
Lethbridge .....	1,686,949	74,884	33,412	.....	1
Magrath .....	2,218	.....	.....	.....	.....
Milk River .....	6,000	.....	.....	.....	.....
Pakan .....	500	.....	.....	.....	.....
Pakowki .....	5,060	.....	.....	.....	.....
Pembina .....	75,440	.....	.....	.....	.....
Redcliff .....	89,817	.....	16,800	.....	.....
Rochester .....	3,850	.....	.....	.....	.....
Sexsmith .....	200	.....	.....	.....	.....
Sheerness .....	14,032	.....	.....	.....	.....
Taber .....	56,245	.....	.....	.....	½
Tofield .....	4,052	.....	.....	.....	.....
Wetaskiwin .....	7,525	.....	.....	.....	.....
Whitecourt .....	1,000	.....	.....	.....	.....
No Area .....	36,350	.....	.....	.....	38
Total .....	9,961,406	77,004	113,686	.....	213

## SUB-BITUMINOUS COAL FIELD

Coalspur .....	153,386	.....	.....	.....	.....
Morley .....	1,100	.....	.....	.....	.....
Pekisko .....	12,560	.....	.....	.....	2½
Pincher .....	5,400	.....	.....	.....	.....
Prairie Creek .....	252,051	.....	1,831	.....	2½
Saunders .....	178,514	.....	34,640	57,604	.....
Total .....	603,011	.....	36,471	57,604	5

## BITUMINOUS COAL FIELD

Cascade .....	287,298	.....	.....	8,895	.....
Crowsnest .....	2,652,068	915,912	9,300	642,413	.....
Mountain Park .....	1,082,029	.....	.....	.....	.....
Nordegg .....	547,002	.....	.....	.....	.....
Total .....	4,568,397	915,912	9,300	651,308	.....

## PARTICULARS OF LAMPS IN THE DOMESTIC COAL FIELD

	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938
Portable Electric Lamps, Edison Cap Type	744	1,207	1,592	1,800	2,627	2,530	2,481	2,521	2,634	2,556	2,792	2,310	2,300	2,148
Portable Electric Lamps, Ceag Hand Type	43													
Portable Electric Lamps, Wico Cap Type	560	275												
Portable Electric Lamps, Oldham Cap Type	40													
Portable Electric Lamps, Wolfe Cap Type							66	66		66			58	104
Safety Lamps, Wolfe Flame Type	147	108	108	106	157	171	160	174	242	191	244	308	244	95
Safety Lamps, Koehler Flame Type	8	4	3						3		3		4	26
Total	1,542	1,594	1,703	1,906	2,784	2,701	2,807	2,761	2,879	2,813	3,039	2,618	2,606	2,373

## PARTICULARS OF LAMPS IN THE SUB-BITUMINOUS COAL FIELD

Portable Electric Lamps, Edison Cap Type	41	120	120	140	161	184	387	350	357	453	275	297	372	389
Safety Lamps, Wolfe Flame Type	110	42	39	45	37	25	51	59	39	46	39	38	45	39
Total	151	162	159	185	198	209	438	409	396	499	314	335	417	428

## PARTICULARS OF LAMPS IN THE BITUMINOUS COAL FIELD

Portable Electric Lamps, Edison Cap Type	2,952	3,024	3,378	3,510	3,310	3,458	4,458	3,005	2,922	2,638	2,743	2,607	2,788	2,745
Portable Electric Lamps, Wheat Electric Cap Type				11	12									
Portable Electric Lamps, Wolfe Electric Cap Type				20	20	20	7			20		25	25	25
Safety Lamps, Wolfe Flame Type	703	554	633	468	363	345	353	337	318	329	324	327	321	319
Safety Lamps, Koehler Flame Type			8											
Total	3,655	3,578	4,019	4,019	3,705	3,823	4,818	3,342	3,240	2,987	3,067	2,959	3,134	3,089



## THE MINES BRANCH

QUANTITY OF EXPLOSIVES USED IN POUNDS FOR BLASTING COAL:  
DOMESTIC COAL FIELD

Areas	Names of Explosives								Total
	CXL-ITE	Pellets	Polar Monobel No. 4	Cardox	Stopeite	Polar Monobel No. 14	Stumping Powder	40% Dynamite	Loose Black
Ardley .....		12,530	10			5			12,545
Big Valley .....		615							615
Brooks .....		5,150	150			150			5,450
Camrse .....						420	22		492
Carbon .....		12,633	180						12,813
Castor .....		7,680	100						7,780
Champion .....		8,470							8,470
Drumheller .....	54	136,651	7,817	9,250	50	12,345			166,167
Edmonton .....		11,767	5,188			11,832	150		28,937
Gleichen .....		6,790							6,790
Halcourt .....		320							430
Lethbridge .....		13,447	5,866	8,688		13,768	100	10	41,769
Magrath .....		50	400						450
Milk River .....		2,700	840						3,540
Pakowki .....		380	125						505
Pakan .....			50						50
Pembina .....		4	535			30			569
Redcliff .....		3,000				1,100			4,100
Rochester .....			20					20	40
Sexsmith .....								20	20
Sheerness .....		925				60			4,475
Taber .....		4,265	35					3,490	4,300
Tofield .....		47½					300	125	4,872½
Wetaskiwin .....		225	51						276
Whitcourt .....		175							175
No Area .....			121				18		139
Total .....	54	227,824½	21,488	17,938	50	39,705	590	175	315,769½

## SUB-BITUMINOUS COAL FIELD

Areas	Names of Explosives						Total
	Miner's Friend	Dynamite 40%	Pellets	Polar Monobel No. 4	Polar Monobel No. 6	35% Polar Forcite	
Coalspur .....		725		31,929		50,250	82,904
Morley .....				5			5
Pekisko .....				195	2,040		2,235
Pincher .....				625			625
Frairie Creek .....			2,401	33,194	2,873		38,468
Saunders .....			6,437		5,135		11,597
Total .....	25	725	8,838	65,948	10,048	50,250	135,834

## BITUMINOUS COAL FIELD

Areas	Names of Explosives					Total
	Monobel Sheathed	Pellets	Polar Monobel No. 4	Polar Monobel No. 6	Polar Monobel No. 14	
Cascade .....			37,800		120	37,920
Crowsnest .....		150	27,560			27,710
Mountain Park .....	25		5,200	51,195	280	56,700
Nordegg .....			8,400			8,400
Total .....	25	150	78,960	51,195	400	130,730

Number of tons of coal produced per pound of Explosives used for blasting coal:

## DOMESTIC COAL FIELD

Areas	Number of tons mined	Number of pounds of explosive used	Tons of coal mined per pound of explosive used
Ardley .....	21,420	12,545	1.70
Big Valley .....	2,069	615	3.36
Brooks .....	9,665	5,450	1.77
Camrose .....	52,662	492	107.04
Carbon .....	92,846	12,813	7.24
Castor .....	39,737	7,780	5.10
Champion .....	16,142	8,470	1.90
Drumheller .....	1,168,348	166,167	7.03
Edmonton .....	515,103	28,937	17.80
Gleichen .....	25,239	6,790	3.71
Halcourt .....	3,355	430	7.80
Lethbridge .....	342,113	41,769	8.19
Magrath .....	541	450	1.20
Milk River .....	3,701	3,540	1.04
Pakan .....	276	50	5.50
Pakowki .....	1,359	505	2.69
Pembina .....	30,267	569	53.20
Redcliff .....	27,382	4,100	6.67
Rochester .....	729	40	18.22
Sexsmith .....	80	20	4.00
Sheerness .....	35,939	4,475	8.03
Taber .....	12,274	4,300	2.85
Tofield .....	41,519	4,872½	8.52
Wetaskiwin .....	2,349	276	8.51
Whitcourt .....	217	175	1.24
No Area .....	5,237	139	37.68
Total .....	2,453,263	315,769½	7.76

## SUB-BITUMINOUS COAL FIELD

Coalspur .....	351,427	82,904	4.23
Morley .....	61	5	12.20
Pekisko .....	5,080	2,235	2.27
Pincher .....	1,413	625	2.26
Prairie Creek .....	91,189	38,468	2.37
Saunders .....	39,742	11,597	3.42
Total .....	488,912	135,834	3.59

## BITUMINOUS COAL FIELD

Cascade .....	170,039	37,920	4.48
Crowsnest .....	1,275,004	27,710	46.01
Mountain Park .....	688,449	56,700	12.14
Nordegg .....	154,358	8,400	18.37
Total .....	2,287,850	130,730	17.50

## THE MINES BRANCH

Estimated number of shots fired for blasting coal:

## DOMESTIC COAL FIELD

Areas	Electric Deton- ators	Electric Squibs	Fuse	Squibs	Total
Ardley .....			8,940		8,940
Big Valley .....			585	75	660
Brooks .....			2,600	400	3,000
Camrose .....	600		1,105		1,705
Carbon .....			7,082	1,305	8,387
Castor .....			7,877	597	8,474
Champion .....			9,026	3,230	12,256
Drumheller .....	19,482	62,842	103,183	800	186,307
Edmonton .....	17,896	2,068	46,215	150	66,329
Gleichen .....			9,793		9,793
Halcourt .....			470		470
Lethbridge .....	36,259		480	9,999	46,738
Magrath .....			640	100	740
Milk River .....			4,110	575	4,685
Pakan .....			100		100
Pakowki .....			190	300	490
Pembina .....	228		398		626
Redcliff .....	1,350			16,000	17,350
Rochester .....			48		48
Sexsmith .....			61		61
Sheerness .....			3,055		3,055
Taber .....			553	5,671	6,224
Tofield .....			2,880		2,880
Wetaskiwin .....			504		504
Whitcourt .....			250		250
No Area .....			513		513
Total .....	75,815	64,910	210,658	39,202	390,585

## SUB-BITUMINOUS COAL FIELD

Coalspur .....	36,406		750		37,156
Morley .....	11				11
Pekisko .....	1,893		570		2,463
Pincher .....	1,226				1,226
Prairie Creek .....	40,673	3,128			43,801
Saunders .....			11,085		11,085
Total .....	80,209	3,128	12,405		95,742

## BITUMINOUS COAL FIELD

Cascade .....	56,638				56,638
Crowsnest .....	28,233		180		28,413
Mountain Park .....	46,569				46,569
Nordegg .....	12,800				12,800
Total .....	141,240		180		141,420

Number of miss-fire shots recorded in blasing coal in the Province:

## DOMESTIC COAL FIELD

Areas	Electric Deton- ators	Electric Squibs	Fuse	Squibs	Total
Ardley .....			43		43
Big Valley .....				1	1
Brooks .....				5	5
Camrose .....			10		10
Carbon .....			24	3	27
Castor .....			17	7	24
Champion .....			6	3	9
Drumheller .....	4	7	45		56
Edmonton .....		11	75		86
Gleichen .....			2		2
Halcourt .....			10		10
Lethbridge .....	3		2	5	10
Milk River .....			5		5
Redcliff .....				6	6
Sheerness .....			3		3
Sexsmith .....			3		3
Taber .....				3	3
Tofield .....			14		14
No Area .....			13		13
<b>Total</b> .....	<b>7</b>	<b>18</b>	<b>272</b>	<b>33</b>	<b>330</b>

## SUB-BITUMINOUS COAL FIELD

Coalspur .....	7				7
Pekisko .....			10		10
Saunders .....			3		3
<b>Total</b> .....	<b>7</b>		<b>13</b>		<b>20</b>

## BITUMINOUS COAL FIELD

Cascade .....	4				4
Crowsnest .....	9		3		12
Mountain Park .....	25				25
<b>Total</b> .....	<b>38</b>		<b>3</b>		<b>41</b>

Quantity of Explosives used in pounds for blasting rock in Coal-mines in the Province:

Areas	Names of Explosives										
	Stopeite	Pellets	Polar Monobel No. 4	Polar Monobel No. 6	Polar Monobel No. 14	Stumping Powder	40% Dynamite	60% Dynamite	Polar Forcite 60%	CXL-ITE	Total
Ardley .....	.....	.....	53	.....	50	.....	42	.....	.....	.....	53
Camrose .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	92
Carbon .....	100	.....	400	100	50	.....	.....	.....	.....	.....	659½
Champion .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	50	700
Castor .....	25	.....	25	.....	.....	.....	4	.....	.....	.....	97
Coalspur .....	.....	.....	47	.....	.....	.....	.....	.....	.....	.....	17,587½
Cascade .....	.....	.....	.....	.....	.....	.....	.....	15,950	1,450	150½	6,305
Crowsnest .....	.....	.....	1,130	205	5	.....	.....	.....	.....	6,300	40,188
Drumheller .....	1,500	200	3,109	.....	400	.....	23,370	.....	2,350	13,133	19,237
Edmonton .....	.....	.....	150	.....	8	.....	1,015	75	10,913	2,100	4,133
Gleichen .....	.....	.....	200	.....	.....	.....	.....	.....	.....	3,900	200
Halcourt .....	.....	10	30	.....	.....	400	50	.....	.....	.....	490
Lethbridge .....	.....	20	512	.....	1,742	.....	.....	.....	.....	600	2,874
Mountain Park .....	.....	.....	.....	4,208	.....	.....	.....	87,886	.....	10,343	102,437
Nordegg .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	450	450
Pekisko .....	.....	.....	.....	.....	65	.....	.....	.....	.....	.....	65
Pembina .....	.....	.....	40	.....	.....	.....	.....	.....	.....	.....	40
Pincher .....	.....	.....	25	.....	.....	.....	.....	.....	.....	.....	25
Prairie Creek .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	25
Pakowki .....	.....	50	.....	.....	150	.....	250	.....	3,115	.....	3,365
Redcliff .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	50
Rochester .....	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	10
Saunders .....	.....	50	.....	.....	400	.....	.....	.....	.....	.....	450
Taber .....	.....	.....	110	.....	.....	.....	100	.....	.....	.....	210
Tofield .....	.....	.....	.....	.....	.....	.....	125	.....	.....	.....	125
Wetaskiwin .....	.....	.....	1	.....	.....	.....	5	.....	.....	.....	6
Total .....	1,625	330	5,832	4,518	2,865	456	41,567½	89,411	13,263	40,141½	200,009



Estimated number of shots fired for blasting rock in Coal-mines in the Province:

Areas	Delay Fuse	Electric Detonators	Fuse	Squibs	Total
Ardley .....			110		110
Camrose .....		95	87		182
Carbon .....			869		869
Champion .....			1,450		1,450
Coalspur .....		3,679	1,877		5,556
Cascade .....		16,000			16,000
Crowsnest .....		20,079			20,079
Drumheller .....		8,630	22,789		31,419
Edmonton .....		2,460	355		2,815
Gleichen .....		370	250		620
Halcourt .....			587		587
Lethbridge .....		5,526			5,526
Mountain Park .....	4,365	22,768			27,133
Nordegg .....		900			900
Pakowki .....				100	100
Pembina .....			25		25
Prairie Creek .....		3,655			3,655
Pekisko .....		40	120		160
Pincher .....		54			54
Redcliff .....			86		86
Rochester .....			35		35
Saunders .....			685		685
Taber .....			195		195
Wetaskiwin .....			14		14
Castor .....			113		113
<b>Total .....</b>	<b>4,365</b>	<b>84,256</b>	<b>29,647</b>	<b>100</b>	<b>118,368</b>

Number of miss-fire shots recorded in blasting rock in Coal-mines in the Province:

Carbon .....			4		4
Castor .....			11		11
Drumheller .....			11		11
Edmonton .....			16		16
Lethbridge .....		1	5		6
<b>Total .....</b>		<b>1</b>	<b>47</b>		<b>48</b>

## ELECTRICITY

The rules for the installation and use of electricity in or about mines require a return to be made to the Department on or before January 15th of each year, giving size, type and any other particulars which may be required of electrical apparatus in use above and below ground. According to the returns received from the different mines, electricity was used in 78 different mines in 1938. A summary of these returns regarding the horse-power of electrical apparatus in use is given below.

Areas	No. of mines using Electricity	Horse-power of electrical apparatus in use		Total Horse-power
		Above Ground	Below Ground	
Ardley .....	1	2½	63	65½
Big Valley .....	1	30	33	63
Camrose .....	1	10	5	15
Carbon .....	4	150½	250	400½
Cascade .....	1	705	175	880
Coalspur .....	5	1,292	410	1,702
Crowsnest .....	6	13,855	2,570	16,425
Drumheller .....	25	3,550	5,487	9,037
Edmonton .....	8	762	979½	1,741½
Gleichen .....	1	2	5	7
Lethbridge .....	8	1,772	1,075	2,847
Mountain Park .....	3	2,506	1,475	3,981
Nordegg .....	1	702	80	182
Pembina .....	2	40	62½	102½
Pincher .....	1	5½	.....	5½
Prairie Creek .....	2	63	247	310
Redcliff .....	2	130	90	220
Saunders .....	2	116½	173	289½
Sheerness .....	1	12½	.....	12½
Taber .....	2	40	65	105
<b>Total .....</b>	<b>78</b>	<b>25,746½</b>	<b>13,245</b>	<b>38,991½</b>

## COAL-CUTTING MACHINERY

Areas	No. of machines operated by		Tons of coal mined by	
	Elec- tricity	Com- pressed air	Elec- tricity	Com- pressed air
Ardley .....	2	2	14,628	655
Big Valley .....	1	.....	602	.....
Carbon .....	6	.....	53,685	.....
Cascade .....	.....	1	.....	500
Champion .....	.....	2	.....	2,150
Coalspur .....	.....	11	.....	73,657
Crowsnest .....	.....	186*	.....	334,059
Drumheller .....	100	.....	1,131,736	.....
Edmonton .....	19	1	308,371	1,200
Halcourt .....	.....	1	.....	591
Gleichen .....	.....	1	.....	4,200
Lethbridge .....	22	1	307,740	150
Milk River .....	.....	1	.....	481
Pakowki .....	.....	1	.....	552
Pembina .....	1	.....	940	.....
Prairie Creek .....	4	1	72,187	1,500
Redcliff .....	3	.....	26,950	.....
Saunders .....	2	8	9,500	29,969
Taber .....	2	2	2,670	3,410
<b>Total .....</b>	<b>162</b>	<b>219</b>	<b>1,929,009</b>	<b>453,074</b>

\*Compressed air operated 186 picks.

## ACCIDENTS

Summary table showing Accidents occurring in Mines from 1906 to 1938 inclusive:

Year	Output	Accidents			Tons of coal mined per accident		
		Fatal	Serious	Slight	Fatal	Serious	Slight
1906	1,385,000	10	11	20	138,500	125,909	60,250
1907	1,834,745	19	18	68	96,565	101,930	26,981
1908	1,845,000	11	38	13	167,727	48,552	141,923
1909	2,174,329	9	42	18	241,952	51,769	120,796
1910	3,036,757	61a	41	58	49,782	71,067	52,375
1911	1,694,564	7	32	45	242,080	52,955	37,656
1912	3,446,349	21	38	58	164,111	90,693	59,419
1913	4,306,346	28	60	83	152,789	71,772	51,883
1914	3,821,739	209b	44	50	18,286	86,857	76,434
1915	3,434,891	18	33	33	190,827	104,087	104,087
1916	4,638,604	20	51	34	232,430	91,149	136,723
1917	4,863,414	24	62	39	202,642	78,442	124,703
1918	6,148,620	22	60	77	279,483	102,477	79,860
1919	5,022,412	21	56	54	239,162	89,685	93,008
1920	6,908,923	29	53	38	238,733	130,371	181,814
1921	5,937,195	21	64	25	282,721	92,769	237,488
1922	5,976,432	35	38	35	170,755	157,274	170,755
1923	6,866,923	22	44	10	312,133	156,066	686,692
1924	5,203,713	21	42	40	247,796	123,898	130,093
1925	5,885,394	30	59	56	196,113	99,718	105,060
1926	6,508,908	39c	67	119	166,398	97,148	54,696
1927	6,936,780	26	76	115	266,799	91,273	60,320
1928	7,334,179	28	71	122	261,935	103,298	60,166
1929	7,147,250	31	69	98	230,556	103,583	72,931
1930	5,755,911	11	69	97	523,265	83,419	59,339
1931	4,563,309	16	75	73	285,207	60,844	62,511
1932	4,867,984	11	61	96	442,544	79,803	50,708
1933	4,714,784	6	60	109	785,797	78,580	43,255
1934	4,748,848	15	68	70	316,589	69,836	67,840
1935	5,462,973	35d	66	113	156,085	82,772	48,352
1936	5,696,375	11	79	101	517,852	72,106	56,400
1937	5,551,682	20	72	73	277,584	77,107	76,050
1938	5,230,025	21e	72	135	249,049	72,639	38,741
Total	158,948,358	908	1,791	2,175	175,053	88,748	73,079

a. Including thirty-one deaths caused by the Bellevue Explosion.

b. Including one hundred and eighty-nine deaths caused by the Hillcrest Explosion.

c. Including ten deaths caused by the McGillivray Creek Coal &amp; Coke Co., Ltd. Explosion.

d. Including sixteen deaths caused by the explosion at the Lethbridge Collieries Ltd., at Coalhurst.

e. Including five deaths caused by the explosion at Hinton Collieries Limited.

## ACCIDENTS DURING 1938, CLASSIFIED ACCORDING TO THE COAL FIELD IN WHICH THEY OCCURRED

Domestic	2,453,263	5	42	62	490,652	58,411	39,569
Sub-Bituminous	488,912	5	8	7	97,782	61,114	69,844
Bituminous	2,287,850	11	22	66	207,986	103,993	34,664

## THE MINES BRANCH

Comparison of Accidents per 1,000,000 tons and per 1,000 men employed, 1915-1938:

Year	Tonnage	Total No. of men employed	Fatal Accidents			Serious Accidents			Slight Accidents			Total		
			No.	Per 1,000,000 tons	Per 1,000 men employed	No.	Per 1,000,000 tons	Per 1,000 men employed	No.	Per 1,000,000 tons	Per 1,000 men employed	Per 1,000,000 tons	No.	Per 1,000 men employed
1915	3,434,891	6,445	18	5.24	2.79	33	9.63	5.12	33	9.63	5.12	84	24.45	13.03
1916	4,538,604	7,570	20	4.31	2.64	51	10.99	6.74	34	7.33	4.49	105	22.61	13.87
1917	4,863,414	8,310	24	4.93	2.88	62	12.75	7.46	39	8.02	4.69	125	25.91	15.04
1918	6,148,620	8,774	22	3.57	2.51	60	9.95	6.84	77	12.52	8.78	159	25.85	18.12
1919	5,022,412	7,573	21	4.18	2.78	56	11.15	7.39	54	10.75	7.13	131	26.28	17.30
1920	6,908,923	8,688	29	4.20	2.99	53	7.81	6.10	38	5.50	4.37	120	17.37	13.81
1921	5,937,195	10,010	21	3.54	2.10	64	10.78	6.39	25	4.23	2.50	110	18.53	10.99
1922	5,976,432	8,547	35	5.86	4.09	38	6.36	4.45	35	5.86	4.09	108	18.07	12.64
1923	6,866,923	9,927	22	3.19	2.21	44	6.39	4.43	10	1.45	1.00	76	11.07	7.65
1924	5,203,713	7,317	21	4.03	2.86	42	8.07	5.74	40	7.68	5.47	103	19.79	14.35
1925	5,883,394	8,774	30	5.10	3.40	59	10.03	3.42	56	9.52	6.38	145	24.65	16.53
1926	6,508,908	8,763	39c	5.99	4.99	67	10.29	7.65	119	10.33	13.58	225	34.57	25.68
1927	6,936,780	9,016	26	3.75	2.88	76	10.96	8.43	115	16.50	12.71	217	31.28	24.06
1928	7,334,179	9,496	28	3.82	2.96	71	9.68	7.48	122	16.63	12.85	221	30.12	23.27
1929	7,147,250	9,572	31	4.34	3.24	69	9.65	7.21	98	13.71	10.24	198	27.70	20.30
1930	5,755,911	8,869	11	1.91	1.24	69	11.99	7.76	97	17.20	10.90	177	30.75	19.91
1931	4,563,309	8,070	16	3.51	1.98	75	16.44	9.27	73	16.00	9.04	164	35.92	20.32
1932	4,867,984	7,837	11	2.26	1.40	61	12.73	7.78	96	19.72	12.55	168	34.51	21.43
1933	*4,714,784	8,042	6	1.27	1.75	60	12.53	7.46	109	20.99	13.55	175	37.12	21.76
1934	*4,748,848	7,863	15	3.14	1.91	68	14.31	8.65	70	14.74	8.90	153	32.21	19.45
1935	*5,462,973	7,824	35d	6.40	4.47	66	12.08	8.44	113	20.68	14.44	214	39.17	27.35
1936	*5,696,375	8,110	11	1.93	1.36	79	13.87	9.74	101	17.73	12.45	191	33.53	23.55
1937	*5,551,632	7,836	20	3.60	2.55	72	12.97	9.19	73	13.15	9.32	165	29.72	21.06
1938	*5,230,025	7,411	21e	4.01	2.83	72	13.76	9.71	135	25.81	18.21	228	43.59	30.76

c. Including 10 deaths by explosion at McGillivray Creek Coal &amp; Coke Co. Ltd.

d. Including 16 deaths by explosion at Lethbridge Collieries Ltd., Coalhurst.

e. Including 5 deaths by explosion at Hinton Collieries Ltd.

\*Output does not include coal produced by farmers under permit.

Number of tons produced per accident:  
DOMESTIC COAL FIELD

Areas	Output	Average No. of men employed	No. of tons produced per accident			
			Fatal	Serious	Slight	Total
Ardley .....	21,420	48	.....	.....	21,420	21,420
Big Valley .....	2,069	8	.....	.....	.....	.....
Brooks .....	9,665	14	.....	.....	.....	.....
Camrose .....	52,662	86	.....	.....	.....	.....
Carbon .....	92,846	154	92,846	92,846	.....	46,423
Castor .....	39,737	81	.....	.....	13,245	13,245
Champion .....	16,142	50	.....	.....	.....	.....
Drumheller .....	1,168,348	1,619	584,174	46,733	36,510	19,802
Edmonton .....	515,103	680	515,103	46,827	34,340	19,077
Gleichen .....	25,239	59	.....	.....	.....	.....
Halcourt .....	3,355	19	.....	.....	3,355	3,355
Lethbridge .....	342,113	547	342,113	68,422	38,012	22,807
Magrath .....	541	4	.....	.....	.....	.....
Milk River .....	3,701	13	.....	.....	.....	.....
Pakan .....	276	5	.....	.....	.....	.....
Pakowki .....	1,359	8	.....	.....	.....	.....
Pembina .....	30,267	55	.....	.....	.....	.....
Redcliff .....	27,382	42	.....	.....	27,382	27,382
Rochester .....	729	4	.....	.....	.....	.....
Sexsmith .....	80	2	.....	.....	.....	.....
Sheerness .....	35,939	45	.....	.....	.....	.....
Taber .....	12,274	34	.....	.....	.....	.....
Tofield .....	41,519	51	.....	.....	.....	.....
Wetaskiwin .....	2,349	7	.....	.....	.....	.....
Whitcourt .....	217	2	.....	.....	.....	.....
No Area .....	5,237	16	.....	.....	.....	.....
Total .....	2,453,263	3,647	490,652	58,411	39,568	22,507

## SUB-BITUMINOUS COAL FIELD

Coalspur .....	351,427	374	.....	351,427	351,427	175,713
Morley .....	61	3	.....	.....	.....	.....
Pekisko .....	5,080	12	.....	.....	.....	.....
Pincher .....	1,413	5	.....	.....	.....	.....
Prairie Creek .....	91,189	135	18,237	15,198	22,797	6,079
Saunders .....	39,742	104	.....	39,742	19,871	13,247
Total .....	488,912	633	97,782	61,114	69,844	24,445

## BITUMINOUS COAL FIELD

Cascade .....	170,039	269	170,039	85,019	56,679	28,339
Crowsnest .....	1,275,004	1,875	212,500	115,909	28,333	20,564
Mountain Park .....	688,449	740	172,112	114,741	45,896	27,538
Nordegg .....	154,358	247	.....	51,452	51,452	25,726
Total .....	2,287,850	3,131	207,986	103,993	34,664	23,109

## SUMMARY

Domestic .....	2,453,263	3,647	490,652	58,411	39,568	22,507
Sub-Bituminous .....	488,912	633	97,782	61,114	69,844	24,445
Bituminous .....	2,287,850	3,131	207,986	103,993	34,664	23,109
Total .....	5,230,025	7,411	249,048	72,639	38,740	22,938



## THE MINES BRANCH

Classification of Accidents according to output of mines which produced during the year 1938:

	Under 1,000 tons	From 1,000 to 5,000 tons	From 5,000 to 10,000 tons	From 10,000 to 50,000 tons	From 50,000 to 100,000 tons	From 100,000 to 150,000 tons	From 150,000 to 200,000 tons	From 200,000 to 300,000 tons	Over 300,000 tons	Total
Fatal .....	.....	.....	.....	4	5	2	6	4	.....	21
Serious .....	.....	1	12	30	6	6	13	7	3	72
Slight .....	2	3	16	42	3	3	33	19	16	135
Total .....	2	4	1	32	77	11	52	30	19	228

Tons of coal produced per accident:

	Under 1,000 tons	From 1,000 to 5,000 tons	From 5,000 to 10,000 tons	From 10,000 to 50,000 tons	From 50,000 to 100,000 tons	From 100,000 to 150,000 tons	From 150,000 to 200,000 tons	From 200,000 to 300,000 tons	Over 300,000 tons	Total
Fatal .....	.....	153,855	.....	255,961	216,720	294,356	143,187	253,922	.....	249,048
Serious .....	.....	51,285	.....	85,320	36,120	98,118	66,086	145,098	114,969	72,639
Slight .....	26,833	.....	106,622	63,990	25,800	196,237	26,034	53,457	21,556	38,740
Total .....	26,833	38,463	106,622	31,995	14,072	53,519	16,521	33,856	18,153	22,938

## FATAL ACCIDENTS

Vinc Ruzik, miner, age 53, on January 4th, in the mine operated by the West Canadian Collieries Ltd., Bellevue, caused when a large piece of coal fell from the rib, while he was loading pillar coal, knocking out a prop which apparently struck him on the head. Fractured skull, causing instant death.

William Kennedy, fire boss, age 59, on January 11th, in the mine operated by Mountain Park Coals Ltd., Mountain Park. He had apparently started a main and tail rope hoist, standing alongside with his left hand on the throttle lever, while endeavouring to guide the tail rope with his right hand. His hand was caught between the rope and drum and he was drawn over the drum. All fingers of the right hand amputated by the rope, also right arm dislocated at elbow and right leg fractured below knee, from the effects of which he died in hospital at Edmonton on January 16th.

Thomas Johnson, fire boss, age 38, on February 8th, in the mine operated by The Western Gem & Jewel Collieries Ltd., Cambrian Mine, Rosedale Station, caused by being struck by coal from an exploded shot. He was walking along the longwall face when a shot which had been ignited exploded, the coal striking him in the face. Face and head badly crushed, causing instant death.

John Wons, miner, age 38, injured in the mine operated by Hillcrest Collieries Ltd., Hillcrest, on February 16th, from the effects of which he died in Calgary on November 24th. He was working at face of 200 room 3 N. when a bump occurred, causing a piece of rock to fall from a jump, striking him. Internal injuries to chest, also mouth, jaw and right knee.

John Cochrane, compressed air locomotive driver, age 26, in the mine of The Canmore Mines Ltd., Canmore, on March 1st, caused by being crushed against a prop. He was operating a compressed air locomotive and had taken it to the charging station when the other locomotive bumped his, causing the charging arm to crush him against a prop which had been placed to prevent accidents should the charging coupling break. Kidney and liver crushed, causing internal bleeding, which resulted in his death 48 hours later.

Lawrence Ford, chute loader, age 25, on March 8th, in the mine operated by the McGillivray Creek Coal & Coke Co. Ltd., Coleman, caused by fall of coal and rock in pillar workings. He was going through the cross-cut from 25 to 24 room when a fall of coal and rock struck him on the head and shoulders, knocking him face down onto some rocks. Fractured skull and multiple head and chest injuries, causing instant death.

Harry Buttermur and Eldred Ambury, miners, ages 44 and 42, caused by blowout of Methane on anticline. They and two other miners and a fire boss were working at face of back angle off 2 angle 6 E. when a blowout of Methane occurred, which overcame them before they could get to safety. They were asphyxiated by Methane, the other men escaping. This accident occurred in the mine of the Luscar Coals Ltd., Luscar, on March 14th.

John Blazeovich, miner, age 33, on March 24th, in the mine operated by Mountain Park Coals Ltd., Mountain Park, caused by fall of coal and rock in pillar workings. He and his partner were working at face of 14 pillar 1 E. level when some stone and coal fell from the roof displacing a post, which fell, striking him on the head. Fracture at base of skull.

William Ilecko, miner, age 31; Martin Sprela, miner, age 33; Anton Pastushak, miner, age 36; George Blcha, miner, age 41; Pete Phillippino, miner, age 37; in the mine operated by the Hinton Collieries Ltd., Hinton, on March 30th, caused by an ignition of gas CH<sub>4</sub>. They were working at the face of 11 and 12 rooms at which an electrically operated coal drill was being used. The sparking of the electrical commutator ignited gas, causing an explosion which depleted the oxygen present in the atmosphere, causing death from asphyxiation.

J. Prisner, miner, age 45, in the mine operated by the Marcus Coals Ltd., Clover Bar, on April 20th, caused by an explosion of powder, cause unknown. He was in the blacksmith shop sharpening an axe at the emery stone when an explosion occurred. It is presumed he was carrying explosives, not in a can, which in some manner exploded, causing instant death to Prisner.

August Shlegal, miner, age 58, in the mine operated by the West Canadian Collieries Ltd., Bellevue, on August 15th, caused by slide of rock in pillar workings. He was working at the face of 168 pillar, the place having been driven through to a cross pitch when a piece of loose rock slipped off the top

of a cave, jamming him against a prop. Brachial artery severed, also internal bleeding, from the effects of which he died 10 hours later.

Harry Moodie, miner, age 22, in the mine operated by J. H. Oliphant, Carbon, on August 26th, caused by a fall of rock while moving timber. He and his partner were moving timber sets in cross-cut when a large cave occurred, knocking him down and burying him. Fractured skull, upper and lower jaws, pelvis and ruptured bladder and cerebral lacerations of brain, from the effects of which he died while being conveyed to the hospital in Drumheller.

Robert Bowman, machineman, age 38, in the mine operated by the Lethbridge Collieries Ltd., No. 8 Mine, Lethbridge, caused by fall of rock at face of room, on September 23rd. He was operating an electric cutting machine at face of 30 room 2 B. off 4 F.S.W. entry, and had taken out some props in order to move the machine, when a fall of rock occurred which knocked him down, his head striking against the machine. Fractured skull, causing instant death.

John T. Crosby, miner, age 39, in the mine operated by the Hillcrest Collieries Ltd., Hillcrest, on September 26th, caused by falling off ladder in chute. He was standing on a ladder at the face of 35 angle off 1 level N. when he slipped and fell to the floor striking his ribs. Fractured 4th, 5th, 6th and 7th ribs left side with traumatic emphysema, causing internal hemorrhage, from the effects of which he died about 8 hours later.

George E. Smith, driver, age 48, in the mine operated by the Wayne Coal Producers Association Ltd., Wayne, on November 26th, caused by horse haulage. He was driving a horse hauling coal on 2 E. entry when at an intersection collided with another trip of cars, and he was jammed between a set of timber and the first car. Injured chest and back from the effects of which he died December 7th.

David S. Fraser, rope-rider, age 22, in the mine operated by the International Coal & Coke Co. Ltd., Coleman, on December 8th, caused by rope haulage. He had signalled a trip of loaded cars away from C. landing; the trip had been hoisted clear off the switch when the rope broke in the socket, allowing the trip to run back, and he was struck by the first car. Body crushed and internal injuries, from the effects of which he died while being taken to the hospital.

## ACCIDENTS AS THEY OCCURRED BY MONTHS DURING THE YEAR 1938:

Months	Above Ground				Under Ground				Total Above and Under Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
January .....			1	1	2	4	11	17	18
February .....			2	2	2	9	11	22	24
March .....		1	1	2	10	11	6	27	29
April .....	1	2	1	4		3	13	16	20
May .....		1	4	5		1	7	8	13
June .....			4	4		2	5	7	11
July .....		2		2		2	1	3	5
August .....		1	1	2	2	2	7	11	13
September .....					2	5	11	18	18
October .....		1	4	5		8	17	25	30
November .....		1	2	3	1	11	11	23	26
December .....			1	1	1	5	14	20	21
Total .....	1	9	21	31	20	63	114	197	228

## ACCIDENTS OCCURRING IN THE PROVINCE ABOVE AND UNDER GROUND DURING THE YEAR 1938:

Cause	Above Ground				Under Ground				Total Above and Under Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
Haulage .....			1	1	4	10	20	34	35
Fall of rock .....					3	25	18	46	46
Fall of coal .....					2	13	26	41	41
Fall of coal and rock .....					2			2	2
Loading coal .....							6	6	6
Coal-cutting machinery:									
Electrical .....						3	6	9	9
Ignition of gas .....					5	6	1	12	12
Blow out of Methane .....					2			2	2
Premature explosion of detonators .....						1	2	3	3
Walked into shot .....					1	1		2	2
Premature explosion of explosives .....	1	2		3					3
Railroad cars .....			1	1					1
Miscellaneous .....		7	19	26	1	4	35	40	66
Total .....	1	9	21	31	20	63	114	197	228

## THE MINES BRANCH

Accidents occurring in the Province above and under ground for the year 1938,  
classified according to the areas in which they occurred:

## DOMESTIC

Area	Above Ground				Under Ground				Total Above and Under Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
Ardley .....							1	1	1
Carbon .....		1		1	1			1	2
Castor .....							3	3	3
Drumheller .....		3	5	8	2	22	27	51	59
Edmonton .....	1	3		4		8	15	23	27
Halcourt .....							1	1	1
Lethbridge .....			1	1	1	5	8	14	15
Redcliff .....							1	1	1
Total .....	1	7	6	14	4	35	56	95	109

## SUB-BITUMINOUS

Coalspur .....						1	1	2	2
Prairie Creek .....			1	1	5	6	3	14	15
Saunders .....			1	1		1	1	2	3
Total .....			2	2	5	8	5	18	20

## BITUMINOUS

Cascade .....					1	2	3	6	6
Crowsnest .....		1	7	8	6	10	38	54	62
Mountain Park .....			5	5	4	6	10	20	25
Nordegg .....		1	1	2		2	2	4	6
Total .....		2	13	15	11	20	53	84	99





## DOMESTIC—Continued

Cause	Above Ground				Under Ground				Total Above and Under Ground
	Above Ground			Total	Under Ground			Total	
	Fatal	Serious	Slight		Fatal	Serious	Slight		
Manual Haulage, arm caught against timber.....	.....	.....	.....	.....	.....	.....	1	1	1
Locomotive Haulage, retailing car, hand caught.....	.....	.....	.....	.....	.....	.....	1	1	1
Locomotive Haulage, hand caught between locomotive and timber.....	.....	.....	1	1	.....	.....	1	1	1
Miscellaneous, pushing car, piece of coal fell on foot.....	.....	.....	.....	.....	.....	.....	1	3	1
Miscellaneous, bar caught finger.....	.....	.....	.....	5	.....	.....	.....	1	1
Miscellaneous, slipped and fell.....	.....	3	2	.....	.....	.....	.....	1	1
Miscellaneous, axle slipped.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Miscellaneous, loading rail, rail fell.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Miscellaneous, caught by derailed car.....	.....	1	.....	1	.....	.....	.....	.....	.....
Miscellaneous, repairing pump, hand caught in gears.....	.....	1	.....	1	.....	.....	.....	.....	.....
Miscellaneous, foot caught in tippie dump.....	.....	.....	1	1	.....	.....	.....	.....	.....
Miscellaneous, infected knee through scratch.....	.....	.....	.....	.....	.....	.....	.....	1	1
Miscellaneous, piece of coal fell on foot.....	.....	.....	1	1	.....	.....	.....	.....	.....
Railroad cars, fell from cars.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	1	7	6	14	4	35	56	95	109

## SUB-BITUMINOUS

Rope Haulage, finger caught while repairing hoist.....	.....	.....	.....	.....	.....	.....	1	1	1
Ignition of gas, gas ignited by the sparking of electric drill.....	.....	.....	.....	.....	.....	.....	.....	.....	10
Fall of rock at face of room.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Fall of rock at face of conveyor room.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Electric coal-cutting machine, kicked back and caught hand against prop.....	.....	.....	.....	.....	.....	.....	1	1	1
Miscellaneous, caught by conveyor belt.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Miscellaneous, slipped and fell in chute.....	.....	.....	.....	.....	.....	.....	1	1	1
Miscellaneous, plank slipped and he fell.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Miscellaneous, saw caught block and jammed finger.....	.....	.....	1	1	.....	.....	.....	.....	1
Miscellaneous, axle slipped and caught hand.....	.....	.....	.....	.....	.....	.....	1	1	1
Miscellaneous, car ran over foot.....	.....	.....	1	1	.....	.....	.....	.....	1
Total.....	.....	.....	2	2	5	8	5	18	20



## BITUMINOUS—Continued

Cause	Above Ground				Under Ground				Total Above and Under Ground
	Above Ground			Total	Under Ground				
	Fatal	Serious	Slight		Fatal	Serious	Slight	Total	
Miscellaneous, slipped when stepping from truck	.....	.....	1	1	.....	.....	.....	.....	1
Miscellaneous, slipped and fell	.....	1	2	3	.....	1	9	10	13
Miscellaneous, slipped and fell while packing timber	.....	.....	.....	.....	.....	.....	1	1	1
Miscellaneous, piece of rock fell on hand	.....	.....	.....	.....	.....	.....	1	1	1
Miscellaneous, fell from ladder	.....	.....	.....	.....	.....	1	1	1	1
Miscellaneous, piece of coal fell on foot	.....	.....	1	1	.....	.....	1	1	2
Miscellaneous, while chute loading, jammed against car	.....	.....	.....	.....	.....	.....	1	1	2
Miscellaneous, working on pipe line	.....	.....	2	2	.....	.....	.....	.....	2
Miscellaneous, bolt in drill press broke	.....	.....	1	1	.....	.....	.....	.....	1
Total	.....	2	13	15	11	20	53	84	99

## SUMMARY

Domestic	1	7	6	14	4	35	56	95	109
Sub-Bituminous	.....	.....	2	2	5	8	5	18	20
Bituminous	.....	2	13	15	11	20	53	84	99
Total	1	9	21	31	20	63	114	197	228

Accidents during 1938, classified according to the Mine in which they occurred:

DOMESTIC COAL FIELD

Name of Operator	Area	Above Ground			Under Ground			Total Above and Under Ground
		Fatal	Serious	Slight	Total	Fatal	Serious	Total
W. Marsh & Son	Ardley							1
W. T. Phillips	Castor							1
Mrs. N. Shaw	Castor				1			1
J. H. Oliphant	Carbon					1		1
Rosedale Collieries (Rosedale)	Drumbheller							2
Midland Coal Mining Co. Ltd.	Drumbheller						3	3
Red Deer Valley Coal Co. Ltd.	Drumbheller		2					2
Commander Coal Co.	Drumbheller			1	1			2
Rosedale Collieries Ltd. (Aerial)	Drumbheller						1	1
Alberta Block Coal Co. Ltd.	Drumbheller							1
Wayne Coal Producers Association Ltd.	Drumbheller							1
Maple Leaf Minerals Ltd.	Drumbheller			1	1			2
The Western Gem & Jewel Collieries Ltd., Mine No. 763	Drumbheller					1		1
The Western Gem & Jewel Collieries Ltd., Mine No. 1493	Drumbheller						2	2
The Elgin Coal Co. Ltd.	Drumbheller							1
Brilliant Coal Co.	Drumbheller		1		1			2
Empire Collieries Ltd. (Willow Creek)	Drumbheller						1	1
Empire Collieries Ltd. (East Coulee)	Drumbheller							1
The Hy-Grade Coal Co. Ltd.	Drumbheller						5	5
The Monarch Coal Mining Co. Ltd.	Drumbheller			1	1			2
Regal Coal Co. Ltd.	Drumbheller						2	2
Murray Collieries Ltd.	Drumbheller			1	1			2
Great West Coal Co. Ltd.	Edmonton						2	2
Banner Coals Ltd.	Edmonton						1	1
Marcus Coals Ltd.	Edmonton		2					2
Black Point Coal Co.	Edmonton	1			3			4
Rabbit Hill Collieries	Edmonton		1		1			2
Red Hot Coal Co. Ltd.	Edmonton							1
Beverly Coal Co. Ltd.	Edmonton						1	1
Ernest Watt	Edmonton							1
J. J. Hamilton Coal Co.	Harcourt							1
John Rollingson	Lethbridge						1	1
J. E. Chester	Lethbridge							1
Lethbridge Collieries Ltd. (Shaughnessy)	Lethbridge						1	1
Lethbridge Collieries Ltd. (Lethbridge)	Lethbridge						2	2
John Oliphant	Lethbridge			1	1			2
	Redcliff							1
Total		1	7	6	14	4	35	95
								109



## SUB-BITUMINOUS COAL FIELD

Name of Operator	Area	Above Ground			Under Ground			Total Above and Under Ground
		Fatal	Serious	Slight	Fatal	Serious	Slight	
Bighorn & Saunders Creek Collieries Ltd.	Saunders	.....	.....	.....	.....	1	.....	1
Alexo Coal Co. Ltd.	Saunders	.....	.....	1	.....	.....	1	2
The Foothills Collieries Ltd.	Coalspur	.....	.....	.....	.....	.....	1	1
Lakeside Coals Ltd.	Coalspur	.....	.....	.....	.....	1	.....	1
Hinton Collieries Ltd.	Prairie Creek	.....	.....	1	.....	5	2	14
Jasper Coal Ltd.	Prairie Creek	.....	.....	.....	.....	.....	1	1
Total		.....	.....	2	.....	5	5	20

## BITUMINOUS COAL FIELD

The Canmore Mines Ltd.	Cascade	.....	.....	.....	.....	1	2	3	6
Hillcrest Collieries Ltd.	Crowsnest	.....	.....	1	.....	2	4	2	8
West Canadian Collieries Ltd. (Bellevue)	Crowsnest	.....	1	2	.....	2	1	18	21
International Coal & Coke Co. Ltd.	Crowsnest	.....	.....	4	.....	3	12	16	20
McGillivray Creek Coal & Coke Co. Ltd.	Crowsnest	.....	.....	.....	.....	1	1	4	6
West Canadian Collieries Ltd. (Greenhill)	Crowsnest	.....	.....	.....	.....	1	2	3	3
Mountain Park Coals Ltd.	Mountain Park	.....	.....	1	.....	2	4	9	16
Cadomin Coal Co. Ltd.	Mountain Park	.....	.....	2	.....	2	1	2	4
Luscar Coals Ltd.	Mountain Park	.....	.....	2	.....	2	1	3	5
Brazeau Collieries Ltd.	Nordegg	.....	1	1	.....	2	2	4	6
Total		.....	2	13	.....	11	20	53	99

## SUMMARY

Domestic	1	7	6	14	4	35	56	95	109
Sub-Bituminous	.....	.....	2	2	5	.....	5	18	20
Bituminous	.....	2	13	15	11	20	53	84	99
Total	1	9	21	31	20	63	114	197	228

## LIST OF PROSECUTIONS INSTITUTED UNDER THE COAL-MINES REGULATION ACT FOR THE YEAR ENDING DECEMBER 31, 1938

Mine in which Contravention was Committed	Description of Defendant	Offence Charged	Result of Proceedings	Penalty	Costs
K.N.J. Mine	Miner	Working in the mine with an open light	Convicted	Fined \$2.00 or 5 days	\$ 4.75
K.N.J. Mine	Miner	Working in the mine with an open light	Convicted	Fined \$2.00 or 5 days	4.75
K.N.J. Mine	Overman	Allowing men to work with open lights	Convicted	Fined \$5.00 or 10 days	3.75
Brilliant Coal Company	Working as a miner	Misrepresentation	Convicted	Fined \$25.00 and costs or 2 months' hard labour	5.75
Brilliant Coal Company	Working as a miner	Working at face without a coal-miner's certificate	Convicted	Fined \$10.00 or 1 month's hard labour	.....
An Illegal Mine	No occupation	Mining without a miner's certificate in coal	Convicted	Fined \$1.00 or 15 days	4.00
An Illegal Mine	No occupation	Working at coal face with miner's certificate	Convicted	Fined \$5.00 or 30 days	4.00
Brilliant Coal Company	Miner	Being below ground for the purpose of his work for a period in excess of the eight-hour law	Convicted	Fined \$2.00 or 10 days with hard labour	2.25
Brilliant Coal Company	Miner	Had in mine cigarette paper, cigarette tobacco and matches	Convicted	Fined \$25.00 and costs or 2 months' hard labour	2.25
Red Deer Valley Coal Co. Ltd.	Miner	Unlawfully placed a ¼ stick of pellet blasting powder in shot hole before arrival of fire-boss	Convicted	Fined \$5.00 or 15 days in jail	4.25
Vanbesten Mine (Mrs. A. Herbaut)	Miner	Sought employment by means of a fraudulent certificate of competency as a miner contrary to Sec. 49 of the C.M.R. Act	Convicted	1 month's hard labour, no option of fine	.....
Hinton Collieries Ltd.	Electrician	He did take a blow torch into the Hinton Mine and did use same	Convicted	Fined \$20.00	2.40
Hinton Collieries Ltd.	Overman	Failed to inspect place where and after shots had been fired to ascertain if work could be safely resumed and allowed men to enter such places without making necessary inspection	Convicted	Fined \$25.00	3.00
Hinton Collieries Ltd.	Overman	Did fail to inspect with a locked frame type safety lamp that part of the mine intended to be worked, etc.	Convicted	Fined \$30.00	3.00
Hinton Collieries Ltd.	Examiner	Did fail to inspect with a locked flame type safety lamp that part of the mine intended to be worked, etc.	Convicted	Fined \$25.00	3.00
Hinton Collieries Ltd.	Examiner	Failed to inspect place where and after shots had been fired to ascertain if work could be safely resumed and allowed men to enter such places without the necessary inspection	Convicted	Fined \$25.00	3.00
Hinton Collieries Ltd.	Examiner	Failed to inspect with a locked flame type safety lamp that part of the mine intended to be worked, etc.	Convicted	Fined \$25.00	3.00

## LIST OF PROSECUTIONS INSTITUTED UNDER THE COAL-MINES REGULATION ACT FOR THE YEAR ENDING DECEMBER 31, 1938—Continued

Mine in which Contravention was Committed	Description of Defendant	Offence Charged	Result of Proceedings	Penalty	Costs
Hinton Collieries Ltd.	Examiner	Failed to inspect the place where and after shots had been fired to ascertain if work could be safely resumed and allowed men to enter such places without having the necessary inspection.	Convicted	Fined \$25.00	3.00
Hinton Collieries Ltd.	7 Miners	They did fire shots in the mine not being competent persons	Convicted	Fined \$10.00 each	16.80
Hinton Collieries Ltd.	Manager	In a mine in which inflammable gas had been found within the preceding twelve months, did not require examiners appointed for that purpose to inspect with a locked flame type safety lamp those parts of the mine intended to be worked and the roadways leading thereto within three hours before the time the next succeeding shift commenced work	Convicted	Fined \$75.00	1.75
Hinton Collieries Ltd.	Manager	Did not keep in use in connection with a ventilating fan, not being an auxiliary fan placed underground, an automatic recording pressure gauge	Convicted	Fined \$50.00	1.75
Hinton Collieries Ltd.	Manager	Did neglect to see that the provisions of The Coal-mines Regulation Act with respect to shot-firing were strictly observed in that he knowingly permitted miners other than competent persons appointed for the purposes as defined by the said Act to fire shots in places in which the use of a locked safety lamp was for the time being required	Convicted	Fined \$75.00	3.75
Lethbridge Coll. Ltd., No. 8 Mine.	Gripper Miner	Had insufficient timber set to properly secure the roof and sides of his working place	Convicted	Fined \$1.00 and costs	4.50
Brilliant Coal Company	Miner	Unlawfully arriving 1/4 stick of powder in shot hole before arrival of the fire-boss	Convicted	Fined \$2.00	2.95
Alberta Block Coal Co. Ltd.	Miner	Had insufficient timber set to properly secure the roof and sides of his working place	Convicted	Fined \$2.00 and costs	2.90
Alberta Block Coal Co. Ltd.	Miner	Had insufficient timber set to properly secure the roof and sides of his working place	Convicted	Fined \$2.00	2.90

## NUMBER OF MINES OPENED, ABANDONED AND RE-OPENED ACCORDING TO AREAS AND KIND OF COAL, DURING THE YEAR

Area	Area Number	Character of Coal	No. of Mines in operation Dec. 31, '38	Mines opened during the year	Mines re-opened during the year	Mines closed but not abandoned	Mines abandoned during the year	Name and Address of District Inspector of Mines
Ardley	1	Domestic	14					
Big Valley	2	Domestic	3				1	
Camrose	5	Domestic	8			1		
Castor	8	Domestic	33	3	2	3	1	
Edmonton	15	Domestic	32	3		3		
Tofield	42	Domestic	4					
Wetaskiwin	45	Domestic	4	2			1	
Brooks	3	Domestic	3					
Champion	9	Domestic	8			1	2	
Lethbridge	20	Domestic	16			2		W. E. G. Hall, Lethbridge, Alta. Tel. No. 3325.
Magrath	21	Domestic	1			1		
Milk River	22	Domestic	5	1				
Pakowki	28	Domestic	4					
Redcliff	34	Domestic	2					
Taber	41	Domestic	12	2		2		
Coalspur	11	Sub-Bituminous	6			1		Thomas Horne, Edson, Alta. Tel. No. 35, Residence.
Edmonton	15	Domestic	1			2		
Mountain Park	24	Bituminous	4			2		
Pembina	31	Domestic	3	1		1	1	
Prairie Creek	33	Sub-Bituminous	2					
Crowsnest	12	Bituminous	10					E. H. Morgan, Blairmore, Alta. Tel. No. 70.
Pincher	32	Sub-Bituminous	2					
Carbon	6	Domestic	17	1		1		
Cascade	7	Bituminous	2					
Drumheller	14	Domestic	7	1		1	2	W. G. Heeley, New Court House Building, Calgary, Alta. Tel. No. M842-84.
Gleichen	17	Domestic	4		1			
Morley	23	Sub-Bituminous	1					
Nordegg	25	Bituminous	1					
Pekisko	30	Sub-Bituminous	6				1	
Saunders	36	Sub-Bituminous	3	1				
No Area		Domestic						
Drumheller	14	Domestic	18				2	
Gleichen	17	Domestic	2					
Sheerness	38	Domestic	11			2	3	
Halcourt	18	Domestic	9	3		3	2	
Whitecourt	46	Domestic	1					A. B. Hunter, Edmonton, Alta. Tel. No. 916415.
Pakan	27	Domestic	2	2		3		
Rochester	35	Domestic	2	1				
Sexsmith	37	Domestic	1					
No Area		Domestic	3			1		
Total			259	21	3	28	17	

In addition to the above, Mr. A. B. Hunter, 10904 75th Street, Edmonton, is acting in the capacity of Assistant Chief Inspector of Mines, Telephone No. 72212.

## THE MINES BRANCH

## BOARD OF EXAMINERS

The Board during the year 1938 consisted of the following:  
As representing:

- (a) The Mine Inspectorate:  
Andrew A. Millar, Chief Inspector of Mines.
  - (b) Managers:  
Robert Livingstone, A. C. Dunn.
  - (c) Working Miners:  
William Lammie, Evan Morgan.
- Secretary: James A. Richards.

During the year Mr. Robert Livingstone, due to ill-health and coincident with his retiral from active mine management, resigned from the Board and Mr. James Cumberland, Drumheller, was appointed to the vacancy.

Mr. Livingstone has given long and valuable assistance as a member of this Board.

Examinations during the year were held as follows:

For third class at the following centres: Canmore, May 10 and 12; Blairmore, May 10 and 11; Grande Prairie, May 11 and 12; Edmonton, May 10 to 18; Cadomin, May 10; Drumheller, May 10 to 15; Lethbridge, May 10 and 11; Nordegg, June 10.

For first and second class on June 8, 9 and 10 at Blairmore, Lethbridge, Canmore, Drumheller, Edmonton, and Nordegg.

For mine surveyors' on June 10 at Nordegg, Drumheller, and Blairmore.

Thirteen candidates presented themselves for examination for first class certificates, of whom two were successful.

Thirty-six candidates presented themselves for examination for second class certificates, twelve of whom were successful. This included one candidate for supplementary examination who was successful and one who was not successful. This examination is in accordance with Rule 9 (b) of the Rules Governing Examinations for second class certificates.

Eighty-four candidates presented themselves for examination for third class certificates, of whom sixty-one were successful.

Four candidates presented themselves for examination for mine surveyors' certificates, of whom one was successful.

The successful candidates are in the list following herewith:

LIST OF NAMES OF HOLDERS OF FIRST, SECOND AND THIRD CLASS AND  
MINE SURVEYORS' CERTIFICATES

Issued by the Government of the Province of Alberta during the year 1938

## FIRST CLASS

Name	Address	Cert. No.	Date of Issue
Jones, John R. B. ....	Edmonton .....	18	21- 7-38
Touhey, James B. ....	Drumheller .....	19	27- 7-38

## SECOND CLASS

Alexander, William .....	Bellevue .....	68	30- 7-38
Carmichael, Malcolm .....	Canmore .....	65	21- 7-38
Fridel, Stephen .....	Edmonton .....	69	30- 7-38
Goodwin, Albert E. ....	Bellevue .....	72	26- 8-38
Holliday, Thomas .....	Drumheller .....	71	17- 8-38
Henry, Wm. B. ....	Newcastle .....	76	9-11-38
Muir, Alexander .....	Alexo .....	67	27- 8-38
Miller, Henry .....	Taber .....	75	13-10-38
McAndrew, John M. ....	Calgary .....	64	19- 7-38
McMullen, Arthur .....	Nordegg .....	66	21- 7-38
Shaw, Robert .....	Coleman .....	70	2- 8-38
Thomas, David R. ....	Edmonton .....	73	3- 9-38



## THIRD CLASS

Name	Address	Cert. No.	Date of Issue
Anderson, Arne	Elnora	313	4- 7-38
Allen, Walter F.	Wayne	315	4- 7-38
Barnes, George S.	Mountain Park	290	8- 6-38
Bulat, John	Edmonton	291	8- 6-38
Briers, Leonard	Red Deer	317	8- 7-38
Boychuk, Michael T.	Shaughnessy	324	12- 8-38
Barclay, Peter	Foothills	332	7- 9-38
Blum, Leo	Lymburn	336	19- 9-38
Bryant, E. A.	Wabamun	337	1-10-38
Camarta, John	Bittern Lake	287	8- 6-38
Cumberford, Granger	Drumheller	289	8- 6-38
Campbell, Harry B.	Forestburg	303	22- 6-38
Colonel, Daniel	Edberg	318	14- 7-38
Crawford, John S.	Alix	333	7- 9-38
Duquesne, George	Champion	306	22- 6-38
Dunn, Robert A.	Willow Creek	322	8- 8-38
Davies, Ernest	Big Prairie	326	26- 8-38
Fregren, Eric	Mercoal	280	11- 2-38
Fox, Benjamin	Carbon	297	11- 6-38
Folden, Irvine A.	East Coulee	323	9- 8-38
Fox, Alfred, Jr.	Carbon	334	19- 9-38
Greig, Norman	Dinant	293	10- 6-38
Grant, Alexander	Hillcrest	298	13- 6-38
Groombridge, Thomas	Edberg	312	4- 7-38
Green, Walter	East Coulee	328	29- 8-38
Horz, E. Louis C. J.	Evansburg	308	22- 6-38
Hamilton, Duncan C.	Drumheller	320	28- 7-38
Henry, Wm. B.	Newcastle	339	9-11-38
Hetherington, W. B.	Calgary	340	9-11-38
Jones, J. R. B.	Edmonton	301	22- 6-38
Louheila, Sula A.	Canmore	295	10- 6-38
Lynass, James C.	Delburne	310	22- 6-38
Mills, Jonathan J.	Rosalind	283	22- 4-38
Miskow, Michael J.	Canmore	284	7- 6-38
Morkwia, Victor, Jr.	Canmore	285	7- 6-38
Morris, Robert L.	Coleman	294	10- 6-38
Murphy, Peter J., Jr.	Drumheller	325	15- 8-38
Moran James, Jr.	Edmonton	342	10-12-38
MacKenzie, John	East Coulee	299	13- 6-38
McMullen, Sidney G.	Drumheller	311	22- 6-38
McIntyre, Arnold J.	Mercoal	331	7- 9-38
McLaren, Fred	Dinant	341	14-11-38
Nelson, John B. H.	Dinant	335	19- 9-38
Oxbury, John	Brynon	327	26- 8-38
Passoli, E. L.	Vulcan	314	4- 7-38
Parry, Joseph	Mercoal	316	8- 7-38
Richards, Lorenzo C.	Coleman	286	7- 6-38
Riva, Joseph	Canmore	288	8- 6-38
Remillard, Omer V.	Castor	304	22- 6-38
Raisbeck, Luke	East Coulee	330	7- 9-38
Stewart, Jas. M., Jr.	Nordegg	281	7- 3-38
Sheridan, Daniel	Lacombe	296	11- 6-38
Simpson, Edward	Edmonton	300	22- 6-38
Schymizek, John	Bright Bank	302	22- 6-38
Swan, Harry	Priddis	307	22- 6-38
Sirko, Tibor	Rosedale Station	319	21- 7-38
Stratton, Andrew T.	Redcliff (duplicate)	329	7- 9-38
Smith, Harry	Drumheller	338	21-10-38
Treventhin, Mark	Wayne	305	22- 6-38
Valentini, Marcelli	Bow Island	309	22- 6-38
Wheeler, Albert	Clyde	282	24- 3-38
Yarham, John I.	Forestburg	321	8- 8-38
Zambo, Joseph	Aerial	292	10- 6-38

## MINE SURVEYOR

Hamilton, Duncan C.	Drumheller	10	1-10-38
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## LIST OF MINES

Mine No.	Operator	Address	Location				Character of Coal	
			L.S.	S.	Tp.	Rge.		Mer.
Ardley Area								
255	Carl Kurp	Alix, N.E. $\frac{1}{4}$	5	17	38	23	4th	Domestic
809	J. W. Sissons	Alix, E. of C.N.R.	6	33	38	23	4th	Domestic
812	Walter Marsh & Son	Delburne, N.W. $\frac{1}{4}$	15	2	38	24	4th	Domestic
912	Super-Heat Coal Co., Ltd.	Ardley, N.E. $\frac{1}{4}$	8	29	38	23	4th	Domestic
949	Thomas A. Paton	Delburne	7	27	37	22	4th	Domestic
969	James Blades	Delburne	14	10	38	23	4th	Domestic
1018	Alex. Johnson	Ardley	3	17	38	23	4th	Domestic
1049	Leo Ness	Nervis	1	34	37	22	4th	Domestic
1135	Thos. J. Kurp	Delburne	4	7	38	23	4th	Domestic
1291	Moses F. Johnson	Haynes, N.E. $\frac{1}{4}$	8	11	38	24	4th	Domestic
1322	John Lyness	Delburne	16	7	38	23	4th	Domestic
1365	Russell & McFadden	Alix	14	7	38	23	4th	Domestic
1439	McGladrie & Kehl	Nervis	3	11	39	22	4th	Domestic
1486	Crawford Brothers	Alix	13	29	38	23	4th	Domestic
1488	Chas. O. Russell	Haynes, W. $\frac{1}{2}$	3	29	38	23	4th	Domestic
Big Valley Area								
864	Watson & Ross	Big Valley	16	26	35	20	4th	Domestic
1189	James McKinlay	Huxley, E. $\frac{1}{2}$ of E. $\frac{1}{2}$	13	...	34	...	4th	Domestic
1254	R. Campkin, R.R. No. 1	Lousana, S.W. $\frac{1}{4}$	16	12	36	22	4th	Domestic
1376	Robert Halbert	Trochu	7	30	34	21	4th	Domestic
Brooks Area								
1329	Kleenbirm Collieries, Ltd.	Eyremore	3	16	17	17	4th	Domestic
1404	Kleenbirm Collieries, Ltd.	Eyremore	7	15	17	17	4th	Domestic
1526	Haley & Hamm	Lomond, W. $\frac{1}{2}$ of N.W. $\frac{1}{4}$	...	28	16	17	4th	Domestic
Camrose Area								
241	Joe Proskow	Dinant	4	18	48	19	4th	Domestic
244	Stoney Creek Collieries, Ltd.	Camrose	1	33	46	20	4th	Domestic
374	Canadian Dinant Coal Co., Ltd.	Dinant	9	12	48	20	4th	Domestic
601	Geo. Law, R.R. No. 2	Ohaton	9	10	48	18	4th	Domestic
610	L. Strileycz, R.R. No. 2	Ohaton	8	10	48	18	4th	Domestic
760	W. T. Gothebridge & Sons	Round Hill, S.W. $\frac{1}{4}$	7	30	48	18	4th	Domestic
1259	Low Valley Coal Co.	Camrose	16	21	46	20	4th	Domestic
1420	Red Flame Coal Co.	Round Hill	14	19	48	18	4th	Domestic
1524	Geo. Shute & Partners	Dinant, E. $\frac{1}{2}$	...	7	48	19	4th	Domestic



LIST OF MINES—Continued

Mine No.	Operator	Address	Location				Character of Coal
			L.S.	S.	Tp.	Rge.	
Castor Area—Continued							
1349	James Bradley	Foreman	16	26	40	16	Domestic
1361	Mrs. Dan Shaw	Castor	9	33	37	14	Domestic
1417	John Armstrong	Castor	14	34	37	14	Domestic
1435	Anonson Bros.	Edberg, N. 1/2 S 1/2	6				
1441	R. Heisz	Edberg	11	2	44	19	Domestic
1475	Daniel Colonel	Donald	12	16	42	17	Domestic
1485	F. N. Wiltse	Halkirk, N. 1/2 S 1/2	3	18	44	19	Domestic
1541	H. C. Muncy	Foreman	16	31	39	15	Domestic
1542	W. Jones	Donald	15	26	40	16	Domestic
1552	Anonson, Campbell & Co.	Rosalind	2	33	41	17	Domestic
			14	4	43	17	Domestic
Champion Area							
136	Geo. Rhodes	Champion	7	8	15	22	Domestic
758	Alec Fraser	Carmangay, N.W. 1/4	14	25	14	22	Domestic
1137	Pederotto & Passoli	Champion, S.W. 1/4	2	4	16	23	Domestic
1273	Mrs. A. Herbaut	Champion	14	33	15	23	Domestic
1364	James Henderson	Lemond, S.W. 1/4	3	36	14	22	Domestic
1418	Mike Popovich	Champion	7	8	16	23	Domestic
1454	Mrs. A. Herbaut	Champion	16	32	15	23	Domestic
1509	A. M. S. McGaw	Champion	16	33	15	23	Domestic
Coalspur Area							
769	Sterling Collieries, Ltd.	Sterco	12	35	47	20	Sub-bituminous
771	Foothills Collieries, Ltd., The	Foothills	10	24	47	20	Sub-bituminous
775	Lakeside Coals, Ltd.	Robb	3	14	49	21	Sub-bituminous
846	McLeod River Hard Coal Co., Ltd.	Mercoal	5	25	48	22	Sub-bituminous
1002	Coal Valley Mining Co., Ltd.	Coal Valley	16	26	47	20	Sub-bituminous
1157	H. H. Croxton (Bryan Mine)	Robb	11	15	49	21	Sub-bituminous
Crowsnest Area							
40	Hillcrest Collieries, Ltd.	Hillcrest	16	18	7	3	Bituminous
87	West Canadian Collieries, Ltd.	Bellevue	10	20	7	3	Bituminous
88	International Coal & Coke Co., Ltd.	Coleman	11	8	8	4	Bituminous
133	Mohawk Bituminous Mines, Ltd.	Bellevue, S.E. 1/4	21	7	3	3	Bituminous
153	Burntis Coal Co.	Burntis	8	14	7	3	Bituminous
199	Beaver Mine Co.	Beaver Mines	10	3	6	2	Bituminous
204	McGillivray Creek Coal & Coke Co., Ltd.	Coleman, S.W. 1/4	2	17	8	4	Bituminous
295	B. A. Wilson	Pincher Creek	11	10	5	1	Bituminous
820	Sentinel Coal Co.	Sentinel	10	34	7	5	Bituminous

### Drumheller Area

346	Rosedale Collieries, Ltd.	Rosedale	14	28	28	19	4th	Domestic
367	Midland Coal Mining Co., Ltd.	Drumheller	10-11	9	29	20	4th	Domestic
402	Red Deer Valley Coal Co., Ltd.	Drumheller		7	29	20	4th	Domestic
422	Commander Coal Company	Drumheller	5	9	29	20	4th	Domestic
436	Rosedale Collieries, Ltd.	Aerial, S.E.	7	28	28	19	4th	Domestic
620	Newcastle Collieries, Ltd.	Drumheller, N.W.	1/4	28	27	18	4th	Domestic
675	Comet Coal Co., Ltd.	East Coulee	12	3	29	20	4th	Domestic
703	Wayne Coal Producers Association, Ltd.	Wayne	3	7	28	19	4th	Domestic
728	Maple Leaf Minerals, Ltd.	Drumheller	13	32	27	18	4th	Domestic
737	Superior Grade Coal Co., Ltd.	Wayne	2	19	28	19	4th	Domestic
764	Ben Pickering	Beynon, W.	2	6	28	20	4th	Domestic
815	Ernest Denio	Rsebud	16	7	28	19	4th	Domestic
819	Elgin Coal Co., Ltd.	Drumheller	13	2	29	20	4th	Domestic
1117	Wm. Morrill	Beynon	14	2	28	20	4th	Domestic
1214	Hamilton & Nelson	Della, S.E.	3	23	28	18	4th	Domestic
1258	Brilliant Coal Company	Drumheller	15	6	28	18	4th	Domestic
1279	Empire Collieries, Ltd.	Willow Creek	14	10	29	20	4th	Domestic
1299	Empire Collieries, Ltd.	East Coulee	6-7	7	28	18	4th	Domestic
1421	Hy-Grade Coal Co., Ltd.	Drumheller	2	32	27	18	4th	Domestic
1473	The Monarch Coal Mining Co., Ltd.	Drumheller	13	11	29	20	4th	Domestic
1484	Regal Coal Co., Ltd.	Drumheller	7	8	29	20	4th	Domestic
1491	The Murray Collieries, Ltd.	Drumheller, N.W.	21	21	27	18	4th	Domestic
1493	Western Gem & Jewel Collieries, Ltd.	Drumheller, S.E.	6	15	28	19	4th	Domestic
1511	Aetna Coal Company	Rosedale Station, N.W.	1	22	28	19	4th	Domestic
1515	E. B. Foye	East Coulee	10	22	28	18	4th	Domestic
1520	The Minute Coal Company	Della	17	29	20	4th	4th	Domestic
1544	Wayne Combine Colliery Co.	Drumheller	16	14	29	20	4th	Domestic

## Edmonton Area

29	Evan N. Richards	Edmonton	South	11	25	51	25	4th	Domestic
90	Fraser-Mackay Collieries, Ltd.	Clover Bar	S.W. $\frac{1}{4}$	13-14	8	53	23	4th	Domestic
91	Ottewell Coal Company	Clover Bar	S.W. $\frac{1}{4}$	4	17	53	23	4th	Domestic
99	Great West Coal Co., Ltd.	Clover Bar, S.E. $\frac{1}{4}$		10	7	53	23	4th	Domestic
129	Levi Parker (The Alberta Mine)	Cardiff		16	23	55	23	4th	Domestic
155	Dawson Coal, Ltd.	Edmonton		R.L.	25	Rifle	Range		Domestic
351	Frank Chiarello	Legal, S.W. $\frac{1}{4}$		10	25	57	25	4th	Domestic
428	Banner Coals, Ltd.	Carbondale		15	8	55	24	4th	Domestic
699	Marcus Coals, Ltd.	Clover Bar		15	8	53	23	4th	Domestic
707	Bush Mines, Ltd.	Beverly		R.L.	40	Edmonton	Settlement		Domestic
753	James Moran & Sons	Carbondale		8	8	55	24	4th	Domestic
1034	Black Point Coal Co.	Edmonton	South	6	25	51	25	4th	Domestic
1091	Rabbit Hill Collieries	Edmonton	South	9	26	51	25	4th	Domestic
1098	Long Coal Company, Ltd.	Namao, S.E. $\frac{1}{4}$		4	31	54	24	4th	Domestic
1167	Booth Bros.	Beverly P.O., N.W. $\frac{1}{4}$		1	18	53	23	4th	Domestic
1229	Mrs. Taylor & W. Miller	Bon Accord		9	13	56	24	4th	Domestic



## LIST OF MINES—Continued

Mine No.	Operator	Address	Location					Character of Coal
			L.S.	S.	Tp.	Rge.	Mer.	
Edmonton Area—Continued								
1233	Mike Sinoski (Box 4042)	Edmonton South	5	25	51	25	4th	Domestic
1266	McDonnell Coal Co.	Namoo	14	36	54	25	4th	Domestic
1297	Ellerslie Collieries (R.R. No. 3)	Edmonton South	1	26	51	25	4th	Domestic
1316	Samis Collieries	Namoo	6	36	54	25	4th	Domestic
1321	D. O. Roberts	Cardiff, S.W. 1/4	15	24	55	25	4th	Domestic
1352	Mrs. Steve Poholka	Edmonton South	8	26	51	25	4th	Domestic
1357	Red Hot Coal Co., Ltd. (10841 93rd St.)	Edmonton	R.L. 33	Edmonton	Settlement			Domestic
1366	Beverly Coal Co., Ltd. (9424 98th Ave.)	Edmonton	6	13	53	24	4th	Domestic
1393	Ottewell Coal Co., No. 2 Mine	Edmonton South	4	25	51	25	4th	Domestic
1419	Klapstein & Opalinski (R.R. No. 3)	Edmonton	4	30	52	23	4th	Domestic
1427	Kent Coal Co., Ltd. (10631 92nd St.)	Edmonton South	12	25	51	25	4th	Domestic
1462	Joseph Pickard	Edmonton, N.E. Cor.	14	5	55	24	4th	Domestic
1463	Riverdale Coal Co., Ltd. (Gen. Del.)	Edmonton, N.W. 1/4	9	55	24	4th	Domestic	Domestic
1476	Dickinson, Knight & Dickinson	Edmonton South	7	25	51	25	4th	Domestic
1492	John May (Acme Coal Mine)	Namoo	3	6	55	24	4th	Domestic
1496	D. J. M. Gwilliam	Woodbend	9	1	51	26	4th	Domestic
1528	G. W. Smith	Leduc	9	35	50	26	4th	Domestic
1530	Brehm Coal Co. (R.R. No. 3)	Edmonton	10-11-15	29	51	25	4th	Domestic
1550	George Burnham (R.R. No. 5)							
Gleichen Area								
72	Blackfoot Indians	Gleichen	Blackfoot	Indian Reserve				Domestic
299	Henry Molzan	Rosebud, S. 1/2	4	29	26	21	4th	Domestic
1249	James Finlayson	Bassano, N.W. cor.	7	26	20	19	4th	Domestic
1265	Standard Coal Mine	Standard	5	11	25	22	4th	Domestic
1431	Consumers Coal Co.	Rosebud	3	29	26	21	4th	Domestic
1521	William McMillan	Rosebud	14	20	26	21	4th	Domestic
Halcourt Area								
651	Tissington Bros.	Grande Prairie	15	35	70	7	6th	Domestic
1134	Hamilton & Turner	Beaverlodge	1	21	70	10	6th	Domestic
1360	Loskill & Schneider	Dimsdale	7	21	70	7	6th	Domestic
1399	Hugh Sinclair	Grande Prairie, N.E. 1/4	7	21	70	7	6th	Domestic
1433	Mitchell Bros.	Dimsdale, S.E. 1/4	4	21	70	7	6th	Domestic
1507	Frank Clark	Halcourt	1	20	70	10	6th	Domestic
1539	Dunbar & Partners	Hinton Trail	2	21	70	10	6th	Domestic
1546	G. A. Hutcheson & W. R. Moss	Wembley	4	4	70	8	6th	Domestic
1549	J. L. McIntosh	Dimsdale, N.W. 1/4	7	13	70	7	6th	Domestic

Lethbridge Area								
54	J. J. Hamilton Coal Co.	Lethbridge, N.W.	5	36	8	22	4th	Domestic
55	Loxton & Partners	Magrath	1	18	7	21	4th	Domestic
56	Rozzolini & Bridarolli	Magrath, N. ½ S.W. ¼	3	7	7	21	4th	Domestic
192	City of Lethbridge	Lethbridge	7	36	8	22	4th	Domestic
203	H. A. Dupen	Lethbridge, S.E. ¼	9	31	9	21	4th	Domestic
738	Geo. Rollingson (Box 732)	Lethbridge	2	11	8	22	4th	Domestic
761	Robert Crawford	Lethbridge, N.E. ¼	4	36	8	22	4th	Domestic
871	John Rollingson	Lethbridge	14	27	10	21	4th	Domestic
983	E. H. F. Warren	Picture Butte	11-12	2	7	22	4th	Domestic
984	W. F. Miller & Partners (closed)	Magrath, N.W. ¼	1	2	8	22	4th	Domestic
1045	Batchelor, MacIntyre & Dykstra	Lethbridge, S. ½	15-16	5	8	21	4th	Domestic
1086	Cattani & Rota (720 12th St. B.N.)	Lethbridge	9	30	9	21	4th	Domestic
1095	Chester Mine (Box 5)	Lethbridge	8	31	9	21	4th	Domestic
1109	Lund, Nelson & Hagblad (Box 169)	Lethbridge	12	29	9	21	4th	Domestic
1219	Lethbridge Co-operative Mines Association, Ltd.	Lethbridge	11	30	10	22	4th	Domestic
1263	Lethbridge Collieries, Ltd.	Shaughnessy	11	31	9	22	4th	Domestic
1423	Degaust & Partners	Lethbridge, S.W. ¼	3	2	9	22	4th	Domestic
1464	Lethbridge Collieries, Ltd.	Lethbridge	3	2	9	22	4th	Domestic
Magrath Area								
1332	Smith & Ferguson	Hillspring	2	35	4	28	4th	Domestic
Milk River Area								
179	Tim Speed	Milk River, S.E. ¼	13	31	2	15	4th	Domestic
1301	Thos. Taylor	Groton	8,9,10	10	3	11	4th	Domestic
1370	J. J. Mueller	Masinasin, W. ½	9	27	2	12	4th	Domestic
1522	C. Schmitt & Partners	Allerston	10	15	3	12	4th	Domestic
1540	E. L. Bye	Lucky Strike, N.W. ¼	12-13	33	2	12	4th	Domestic
Morley Area								
219	Mrs. Knight and E. Davies	Big Prairie, N.W. ¼	12	30	...	...	...	Sub-bituminous
		W. ½	13	31	29	5	5th	
		S.W. ¼	4					
Mountain Park Area								
282	Mountain Park Coals, Ltd.	Mt. Park, S.W. ¼	14	33	45	23	5th	Bituminous
693	Cadomin Coal Co., Ltd.	Cadomin	7	31	46	23	5th	Bituminous
905	Luscar Coals, Ltd.	Luscar	7	23	47	24	5th	Bituminous
1392	K. D. Collieries, Ltd.	Luscar	7-11-14	2	46	24	5th	Bituminous
Nordegg Area								
256	Brazeau Collieries, Ltd.	Nordegg	13	22	40	15	5th	Bituminous

## LIST OF MINES—Continued

Mine No.	Operator	Address	Location				Character of Coal
			L.S.	S.	Tp.	Rge.	Mer.
1406	L. W. Garred	Pakan, W. $\frac{1}{2}$	4-5	6	58	16	4th
	<b>Pakan Area</b>						Domestic
341	C. Perini & Sons	Granlea, N.E. $\frac{1}{4}$	7	5	8	8	4th
718	W. Reville	Tohill	15	28	8	4	4th
1138	Wm. Geddes	Little Plume, W. $\frac{1}{2}$	15	2	9	5	4th
1318	Wm. Raeder	Elkwater	10	23	8	3	4th
	<b>Pekisko Area</b>						Domestic
361	Harry Swan	Priddis	11	7	22	3	5th
1142	Wilkinson & Campbell	Bragg Creek	11	27	22	4	5th
1155	W. Kummer, R.R. No. 2	High River	5	9	18	2	5th
1510	K.N.J. Mine	Priddis, N.E. $\frac{1}{4}$	6	5	22	3	5th
1516	G. C. Davies	Priddis	10	4	22	3	5th
	<b>Pembina Area</b>						Sub-bituminous
419	Lakeside Coals, Ltd.	Wabamun	15	9	53	4	5th
1409	Geo. Sturitt	Gainford, S.E. $\frac{1}{4}$	...	36	53	6	5th
1495	A. M. Davidson	Entwistle, N.W. $\frac{1}{4}$	...	34	53	7	5th
1533	L. E. Horz	Evansburg	3	15	54	7	5th
	<b>Pincher Area</b>						Domestic
59	S. J. Purdy & Sons	Lundbreck, S.W. $\frac{1}{4}$	15	26	7	2	5th
1175	Rhodes Bros.	Lundbreck, S.W. $\frac{1}{4}$	...	23	7	2	5th
	<b>Prairie Creek Area</b>						Sub-bituminous
1257	Hinton Collieries, Ltd.	Hinton	14	10	51	25	5th
1296	Jasper Coal, Ltd.	Drimnan	7	19	51	24	5th
	<b>Redcliff Area</b>						Sub-bituminous
165	Gunderson Brick & Coal Co., Ltd.	Redcliff	14	5	13	6	4th
772	J. T. Oliphant	Medicine Hat	2	5	13	6	4th

Rochester Area		Thorhild, N. $\frac{1}{2}$	12	12	60	21	4th	Domestic
Thorhild Coal Co.		S. $\frac{1}{2}$	13	1	62	24	4th	Domestic
Vollrath Bros. & Brenneis		Rochester	9-16	13	62	24	4th	Domestic
Brown, Weeks & Waterhouse		Rochester, E. $\frac{1}{2}$						
Saunders Area		Saunders, S.E. $\frac{1}{4}$	9	24	40	13	5th	Sub-bituminous
Bighorn & Saunders Creek Collieries, Ltd.		Alexo, N.W. $\frac{1}{4}$	9	27	40	13	5th	Sub-bituminous
Alexo Coal Co., Ltd.		Rocky Mountain House, W. $\frac{1}{2}$ of S.W. $\frac{1}{4}$	4	5	41	11	5th	Sub-bituminous
Jack Fish Lake Coal Mine								
Sexsmith Area		Sexsmith, S.E. $\frac{1}{4}$	9	8	75	3	6th	Domestic
Teepee Creek Mining Co.								
Sheerness Area		Sheerness	1	12	29	13	4th	Domestic
Chinook Coal Co., Ltd.		Hanna, S.W. $\frac{1}{4}$	6	29	32	13	4th	Domestic
J. R. Hemstock		Hanna	1	19	29	14	4th	Domestic
W. J. Morse		Rose Lynn	5	35	28	13	4th	Domestic
H. Sward		Craignyle, S.E. $\frac{1}{4}$	3	25	33	16	4th	Domestic
B. A. Kirkeby		Scapa	16	3	33	14	4th	Domestic
R. J. Unsworth, R.R. No. 2		Scapa	1	36	33	14	4th	Domestic
H. Finkbner		Hanna	12	1	29	14	4th	Domestic
T. E. Stubbs		Hanna, S.W. $\frac{1}{4}$	9	19	29	14	4th	Domestic
Ironside & Glover		Sheerness	5	19	29	12	4th	Domestic
A. J. Bordula		Della	13	21	29	12	4th	Domestic
Sheerness Coal Co., Ltd.			10		30	17	4th	Domestic
Pete Prokopos								
J. Masciangelo & Partners								
Taber Area		Taber, S. $\frac{1}{2}$	14	7	10	16	4th	Domestic
Wallwork & Hesketh		Taber, N. $\frac{1}{2}$	4	18	10	16	4th	Domestic
Williams Coal Co.		Grassy Lake, N.W. $\frac{1}{2}$	4	25	9	13	4th	Domestic
George S. Gibson		Bow Island, N. $\frac{1}{2}$	3	36	11	11	4th	Domestic
M. Valentini		Bow Island	3	27	12	10	4th	Domestic
J. Annon		Barnwell, N.E. $\frac{1}{4}$	8	4	10	17	4th	Domestic
Powell Coal Co.		Maleb	13	6	8	10	4th	Domestic
A. Menini		Taber	7	30	10	16	4th	Domestic
River Bend Coal Co.		Taber	2	1	10	17	4th	Domestic
E. Oliver		Taber	1	13	10	17	4th	Domestic
Dunn Bros.		Grassy Lake	4	26	9	13	4th	Domestic
V. W. Campbell		Taber	2	18	10	16	4th	Domestic
E. Oliver		Taber	14	1		17	4th	Domestic
Mullen, Mullen & Serrie								

LIST OF MINES—Continued

Mine No.	Operator	Address	Location				Character of Coal	
			L.S.	S.	Tp.	Rge.		Mer.
Tofield Area								
215	Tredway Coal Co., Ltd.	Dodds	7	14	49	18	4th	Domestic
252	Tofield Coal Co., Ltd.	Tofield, N. ½	26	50	19	4th	4th	Domestic
1107	D. Falvo	Dodds	15	11	49	18	4th	Domestic
1206	Ryley Coal Co.	Ryley	8	8	49	17	4th	Domestic
Wetaskiwin Area								
1479	Greendale Coal Co.	Thorsby, N.W. ¼	2	4	48	27	4th	Domestic
1482	G. Komperdo, R.R. No. 2	Millet	6	4	48	27	4th	Domestic
1494	Thorsby Coal Co.	Thorsby	4&5	4	48	27	4th	Domestic
1534	Peter Gill, R.R. No. 2	Thorsby	2&7	3	48	27	4th	Domestic
1551	Gwynne Coal Co.	Bittern Lake, S.E. ¼	....	22	46	22	4th	Domestic
Whitecourt Area								
1474	Edward Malone	Mayerthorpe	7	15	56	9	5th	Domestic
No Area								
1444	W. A. Sutherland & Sons	Picardville, E. ½	15	36	58	27	4th	Domestic
1446	Westlock Coal Co.	Westlock, E. ½	15	17	60	2	5th	Domestic



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